

Product category rules Part B – for articles for windows and doors

General product category rules for environmental product declarations according to EN ISO 14025 and EN 15804

according to the program operation for the preparation of
environmental product declarations (EPD) of the
ift Rosenheim

Key words: Environmental Product Declaration, Articles, Windows, Doors, Life Cycle
Assessment, Product Category Rules



Product category rules
PCR-Part B:
Articles for windows and doors

PCR-ZFT-1.2 : 2020

Note

The present document is only a rough translation. In case of doubt, the German version applies.

Content

1	Preliminary remark.....	3
2	Product category rules.....	3
2.1	Content.....	3
2.2	Verification, validation and release of the PCR.....	3
3	General product information.....	4
3.1	Product description / Product definition.....	4
3.2	Scope.....	4
3.3	Application.....	5
3.4	Quality assurance and management systems (optional).....	5
3.5	Technical data / performance of the product.....	6
4	Raw materials.....	6
4.1	Information on SVHC according to PCR Part A.....	6
4.2	Additional information.....	6
5	Life cycle assessment.....	7
5.1	Functional unit.....	7
5.2	Declared unit.....	7
5.3	Geographical and time-related system boundaries.....	7
5.4	Scope / System boundaries.....	8
5.5	Reference service life (RSL).....	8
5.6	Information on the product life cycle.....	8
6	Bibliography.....	10

1 Preliminary remark

The product category rules of the ift Rosenheim are divided into two parts and marked accordingly. Part A contains general product category rules, while this part B contains product group-specific rules. The valid versions can be obtained from ift Rosenheim.

2 Product category rules

2.1 Content

This PCR defines for specific product groups:

- Rules for the preparation of environmental product declarations (EPD) for articles for doors (internal, external and special doors*), windows (internal, external and special windows*), facades (curtain facades, special facades*) as well as gates according to corresponding standards

2.2 Verification, validation and release of the PCR

The committee of experts “ift-EPD and PCR” performs the validation and thus vouches for its correctness.

Interested Parties involved in the PCR assessment:

- ift Rosenheim

This PCR document with the document number PCR-ZFT-1.2 was validated and released by the committee of experts (CE) of the ift Rosenheim GmbH. The PCR document is valid according to ISO 14025, EN 15804 and the ift guideline NA-01, five years.

Tracking of the editing / revisions:

Serial No.	Date	Editing comment	CE	Declaration code
1	05/2020	Initial verification and release	released	PCR-ZFT-1.0 : 2020
2	10/2021	content changes	released	PCR-ZFT-1.2 : 2020

3 General product information

3.1 Product description / Product definition

The declared products must be described.

In doing so, the trade name of the products / product groups (including any product codes) to which the EPD applies must be stated in addition to a general product description. If it is not reasonably possible to name the products / product groups, e.g. in the context of association EPDs, the product description must clearly delimit the products / product groups to which the EPD applies.

Exemplary information for the components of the articles:

- Type of the article (e.g. finger protection device, etc.)
- Profile (type of building material)
- surface (treatment/coating)
- covers (Material and structure)
- Fillings (Material and structure)
- Gaskets (Material and structure)
- System articles (e.g. assembly elements etc.)

3.2 Scope

These product category rules (PCR-ZFT-1.2) can be applied to articles made of all materials and material combinations that are used in the production of windows, doors, facades and gates including all necessary system articles.

These are for example:

- Pinch protection
- Splinter protection foil, decoration sticker
- Door stops, Wall buffers, floor door buffers
- Door holders
- Door sill
- Animal flap
- Letterbox
- Door spy
- Edge protection, door frame protection, cover fleece
- doorbell
- etc.

The articles can exist of different system components like profiles, coatings, fillings, gaskets, covers, system articles etc. In single cases, it has to be checked if system articles

are already covered by other PCRs, like for example hardware. Where available, the relevant standard must be referred to for the respective accessories.

This PCR does not apply to any live parts.

3.3 Application

Brief description of the scope of the declared products.

Example:

Additional or decorative articles for windows, doors, facades, gates for usage in residential and non-residential as well as in industrial buildings.

3.4 Quality assurance and management systems (optional)

In order to guarantee the quality assurance of the product, certification systems can be used. Within the framework of the EPD, information can optionally be provided on quality assurance or QMS and EMS.

Exemplary information:

Product certification:

- DIN EN 16654 Child protective products - Consumer fitted finger protection devices for doors
- BS 8613 Finger protection devices for pedestrian doors

ift product certification

- QM 330 Plastic glazing blocks
- QM 359 VOC emissions from construction products

Management systems

- Quality management DIN EN ISO 9001
- Environmental management DIN EN ISO 14001
- Energy management DIN EN ISO 50001
- Occupational health and safety management BS OHSAS 18001
- Integrated Management system (IMS)
- EMAS

Note

Existing data, e.g. from EMSs (environmental balances), can facilitate data collection in life cycle assessments.

3.5 Technical data / performance of the product

- Articles used in window, door, facade and gate production
- Including all necessary system articles

Table 1 Characteristics and performance in the product category

	Characteristics and performance*	Unit
Obligation**1,2,3	Weight per unit	kg/unit
Obligation**2	Length weight	kg/m
Obligation**3	Grammage	kg/m ²
Optional**3	Product thickness	m
Optional	Dimensions (height, length, width)	mm
	If applicable, further	

* The reference product is described in the EPD with the mandatory information. The product characteristics can be given in a range to describe the reference product.

** The mandatory information refers to the corresponding declared unit (1 piece, 2 linear meters, 3 m²).

4 Raw materials

4.1 Information on SVHC according to PCR Part A

If products to which this PCR applies contain substances of very high concern (SVHC), these must be indicated in the EPD.

4.2 Additional information

The essential technical information on the product(s) or a reference to it shall be provided for the architect.

When considering the entire life cycle (cradle to grave), the product characteristics must be stated on the basis of the physical properties of the building or a reference to them.

Within the framework of the EPD, further information on building certification systems can be provided.

Example:

The physical properties of the flat glass can be found in the CE label or in the accompanying documentation.

5 Life cycle assessment

For the preparation of an EPD, a life cycle assessment according to ISO 14040 and ISO 14044 is prepared as a basis. The data on which the life cycle assessment is based should be precise, complete and consistent. This life cycle assessment must be representative of the products presented in the declaration. The scope and limits of the life cycle assessment must be specified.

5.1 Functional unit

The functional unit indicates the quantified benefit of a product system used as a comparison unit (see EN 15804).

5.2 Declared unit

Declared products must be described and optionally represented graphically (e.g. CAD drawing). A functional or declared unit to which the EPD data refer must be specified.

The following declared unit must be specified:

- One unit of articles
- Length in m, e.g. 1 linear m of article
- area in m², e.g. 1 m² of article

Note: The underlying unit has always to be specified.

Example:

The functional unit for articles is given as area in m² by a given grammage in kg

If another unit is chosen, this has to be justified.

Example: Pinch protection for a window with the dimensions 1.23 m x 1.48 m, existing of:

- Profile
- System articles (fiber protection cloth and assembly elements)
- Covers

5.3 Geographical and time-related system boundaries

General information according to PCR Part A.

Example:

Reference period Year 2009-2010

Reference area Europe

5.4 Scope / System boundaries

Example articles:

Cradle to Gate according to EN 15804+A1:

The system boundaries include the extraction of raw materials, the manufacture of the articles and the assembly of the individual components to the finished packaged articles at the factory gate.

Cradle to Gate according to EN 15804+A2:

The system boundaries include the extraction of raw materials, the manufacture of the articles and the assembly of the individual components to the finished packaged articles at the factory gate as well the ablation, deposition and material and thermal recycling of the products.

Note:

In the case of construction products and materials that are permitted as exceptions according to EN 15804+A2, the information on disposal may be omitted.

Cradle to Grave according to EN 15804+A1:

The system boundaries also include the use, deconstruction, disposal and material and energy recovery of the articles and its individual parts.

Cradle to Grave according to EN 15804+A2:

The system boundaries also include the stage-of-life-phases application and use.

5.5 Reference service life (RSL)

It applies EN 15804.

5.6 Information on the product life cycle

Regulations to be observed during the life cycle:

Exemplary information:

Product manufacture:

- Product standard
- Applicable certification programs

PCR Articles for windows and doors

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Construction stage:

- Assembly guideline / instruction

Use stage:

- Information on the useful life
- Information on VOC emissions (certification programmes)
- Information on use

End-of-Life stage:

- Recycling initiatives or normal recovery and disposal systems
- Recycling rates in line with the industry standard
- Legal requirements for recovery

6 Bibliography

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