

Product category rules Part B – for semi-finished products

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, Semi-finished products, Life Cycle
Assessment, Product Category Rules



Product category rules
PCR-Part B:
Semi-finished products
PCR-HZ-2.2 : 2018

Note

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

PCR Semi-finished products

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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.

The European Standards EN 15804 and EN 16485 provides basic Product Category Rules for building products, services of all kinds and building processes and in particular for semi-finished products. They form the basis to secure that Environmental Product Declarations for building products, services of all kinds and building processes and in particular for semi-finished products are derived, verified and displayed in a standardized way.

This PCR provides additional Product Category Rules for Type III Environmental Product Declarations (EPD) in particular for semi-finished products. This PCR is therefore supplementing the requirements according to EN 15804 and EN 16485 and do not replace them.

Note

In EN 16485, precise specifications are made for the life cycle assessment and EPD preparation of semi-finished products within the various phases of the life cycle; these must be observed.

2 Product category rules

2.1 Content

This PCR defines for specific product groups:

- Rules for the preparation of environmental product declarations (EPD) for prefabricated raw materials made of metal, plastic, wood and other materials 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

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This PCR document with the document number PCR-HZ-2.2 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	07/2018	Initial verification and release	released	PCR-HZ-1.0
2	07/2018	Editorial changes	released	PCR-HZ-1.1
3	11/2018	Revision of the PCR	released	PCR-HZ-2.0
4	09/2019	Editorial changes	released	PCR-HZ-2.0
5	10/2021	Content changes	released	PCR-HZ-2.2

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:

- Semi-finished products made of metal
- Semi-finished products made of plastic
- Semi-finished products made of wood

3.2 Scope

These product category rules (PCR-HZ-2.2) can be applied to:

- Semi-finished products made of metal
- Semi-finished products made of plastic
- Semi-finished products made of wood
- Semi-finished products made of other materials

If available, the relevant standard must be indicated for the respective semi-finished product.

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3.3 Application

Brief description of the scope of the declared products.

Example:

Steel- or aluminum bars for further processing to profiles

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:

ift product certification

- QM 338 Gaskets and gasket profiles
- QM 304 Impregnated gasket ribbons made of foam plastic
- Certificate for responsible supply management

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)

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

- Semi-finished products made of metal
- Semi-finished products made of plastic
- Semi-finished products made of wood
- Semi-finished products made of other materials

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Table 1 Characteristics and performance in the product category

	Characteristics and performance*	Unit
Obligation**1,2,3,4,5	Gross- or bulk density	kg/m ³
Obligation**2,3	Length weight	kg/linear meter or kg/m
Obligation**4	Weight per unit	kg/unit
Obligation**3	Material thickness	m
Obligation	Moisture content according to EN 16485	%
Optional	Heat transmission coefficient (U-value)	W/(m ² K)
Optional	Heat transfer coefficient	α / λ
Optional	Dimensions (height, length, width)	Linear meter or m
	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 kg, ² m or, ³ linear meter, ³ m², ⁴ pieces, ⁵ m³).

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 semi-finished products 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.

One of the following declared units must be specified:

- 1 kg
- 1 m or linear m
- 1 m²
- 1 unit
- 1 m³
- If another unit is chosen, this has to be justified.

Example:

The functional unit for semi-finished products is given as a weight in kg, with a bulk or gross density.

5.3 Geographical and time-related system boundaries

General information according to PCR Part A.

Example:

Reference period Year 2009-2010

Reference area Europe

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5.4 Scope / System boundaries

Example semi-finished products:

Cradle to Gate according to EN 15804+A1:

The system boundaries include the extraction of raw materials, the manufacture of the semi-finished products and the assembly of the individual components to the finished packaged semi-finished products 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 semi-finished products and the assembly of the individual components to the finished packaged semi-finished products 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 semi-finished products 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

Construction stage:

- Assembly guideline / instruction

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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

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6 Bibliography

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