

Product category rules Part B – for gasket profiles

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, Gasket systems, Life Cycle Assessment,
Product Category Rules



Product category rules
PCR-Part B:
Gasket systems

PCR-DI-2.2 : 2018

Note

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

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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.

2 Product category rules

2.1 Content

This PCR defines for specific product groups:

- Rules for the preparation of environmental product declarations (EPD) for
 - Gaskets and gasket systems for windows, doors and shutters like curtain wallings according to EN 12365-1 and gaskets and gasket systems for usage in fire protection or smoke protection windows, doors and tore according to EN 16034.

2.2 Verification, validation and release of the PCR

This PCR document with the document number PCR-DI-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	12/2012	Initial verification and release	released	PCR-DI-1.1 : 2010
2	01/2013	Revision of the PCR	released	PCR-DI-1.1 : 2013
3	07/2018	Editorial changes	released	PCR-DI-1.2 : 2013
4	11/2018	Revision of the PCR	released	PCR-DI-2.0 : 2018
5	09/2019	Editorial changes	released	PCR-DI-2.0 : 2018
6	10/2021	content changes	released	PCR-DI-2.2 : 2018

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:

- Gaskets and gasket materials according to EN 12365
- Gaskets for sash rebate profiles, overlap profiles, damping profiles. (e.g. gasket profiles for sound protection, smoke protection and fire protection)
- Material and structure have to be specified

3.2 Scope

These product category rules (PCR-DI-2.2) can be applied to gaskets and gasket materials according to EN 12365 made of all materials. The PCR is applicable to gaskets for sash rebate profiles, overlap profiles, damping profiles. These are for example:

- Gasket profiles for sound protection, smoke protection and fire protection
- Lowerable floor gaskets

3.3 Application

Brief description of the scope of the declared products.

Example:

Gaskets and gasket systems for control of permeability to air, water, sound and energy between opening and locking elements, fillings and frames of doors, windows, cuttings and curtain wallings.

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.

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Date of release: 29.11.2018
Next revision: 29.11.2023



Exemplary information:

Inspection

- RAL-GZ 716/1 Section II Quality strategies for plastic windows – gaskets and components und procedures (e.g. gluing, lamination)
- NF252 CSTB: Thermally insulated composite profiles (analog QM323)

ift product certification

- QM 323 Thermally insulated metal-plastic composite profiles
- QM 338 Gaskets and gasket profiles
- QM 339 ift-certified specialist company for calculation of heat transmission coefficient
- 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)

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

- Gaskets and gasket materials according to EN 12365 made of all material
- Gaskets for sash rebate profiles, overlap profiles, damping profiles

Table 1 Characteristics and performance in the product category

	Characteristics and performance*	Unit
Obligation	Length weight	kg/m
Obligation	Gross density	kg/m ³
	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 m, 2 kg).

For gasket systems made of different components, like automatic door gaskets, gross density has not to be given, because the information is not meaningful due to different cross sections.

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 window 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:

- Length in m
- Mass in kg

Example:

The functional unit for gasket systems is given as a length in m, with a length weight in kg.

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

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 gasket systems:

Cradle to Gate according to EN 15804+A1:

The system boundaries include the extraction of raw materials, the manufacture of the gasket systems and the assembly of the individual components to the finished packaged gasket systems 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 gasket systems and the assembly of the individual components to the finished packaged gasket systems 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 gasket systems 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

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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Next revision: 29.11.2023



6 Bibliography

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Beuth Verlag GmbH, Berlin
- [3] DIN EN 16034:2014-12
Pedestrian doorsets, industrial, commercial, garage doors and openable windows - Product standard, performance characteristics - Fire resistance and/or smoke control characteristics
Beuth Verlag GmbH, Berlin

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Next revision: 29.11.2023



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Publication

PCR Gasket systems PCR-DI-2.2
Product Category Rules according to EN ISO 14025 und EN 15804

Bibliographic information of the German Library. The German Library lists this publication in the German national bibliography; detailed bibliographic data can be found on the Internet:
<http://dnb.ddb.de>.

Layout

ift Rosenheim GmbH

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