Product group: Products for passive technical fire protection

Declaration code: PCR-BE-2.3 : 2018

Date of release: 25.01.2018 Next revision: 25.01.2023



Product category rules Part B -

for products for passive technical fire protection

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, Fire protection, Life Cycle Assessment, Product Category Rules





Product category rules
PCR-Part B:
Products for passive
technical fire protection

PCR-BE-2.3: 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 foaming and energy-consuming building products for passive technical fire protection

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-BE-2.3 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-BE-1.0 : 2012
2	01/2013	Revision of the PCR	released	PCR-BE-1.1 : 2013
3	01/2018	Revision of the PCR	released	PCR-BE-2.1 : 2018
4	09/2019	Editorial changes	released	PCR-BE-2.1 : 2018
5	10/2021	Content changes	released	PCR-BE-2.3 : 2018

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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:

foaming and energy-consuming building products for passive technical fire protection

3.2 Scope

These product category rules (PCR-BE-2.3) can be applied to the following building products for passive technical fire protection:

- Foaming building products with General technical approval (abZ):
 - o Pipe and cable penetration seals
- Energy-consuming building products with general test certificate from the building authorities (abP):
 - o Fire protection panels
 - o insertion materials for metal profiles for heat insulation purposes
 - o cladding of building components, steel girders, ceilings, walls, cable ducts

3.3 Application

Brief description of the scope of the declared products.

Example:

- The foaming building material inflates in the case of fire and provides an insulating foam to seal building components such as fire doors, gates and facade elements against fire and smoke.
- Energy-consuming fire protection panels develop very good cooling properties in the event of fire due to the high proportion of crystalline-bound water, thus providing heat insulation.

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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 302 smoke protection closures

Management systems

- Quality management DIN EN ISO 9001
- Environnemental 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

The following building products for passive technical fire protection:

- Foaming building products with General technical approval (abZ):
 - o Pipe and cable penetration seals
- Energy-consuming building products with general test certificate from the building authorities (abP):
 - o Fire protection panels
 - insertion materials for metal profiles for heat insulation purposes
 - o cladding of building components, steel girders, ceilings, walls, cable ducts

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 Table 1
 Characteristics and performance in the product category

	Characteristics and performance*	Unit
Obligation**2	Grammage	kg/m²
Obligation**1	Weight per unit	kg/unit
Obligation**1,2,3	Gross density	kg/m³
Optional	Material thickness	m
Optional	Fire resistance class	-
	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.

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.

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^{**} The mandatory information refers to the corresponding declared unit (1 kg, 2 m2, 3 m3, 4 kg/m3).

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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:

- Mass in kg
- Area in m²
- Volume in m³
- Density in kg/m³

Example:

The functional unit for fire protection panels is given as an area in m², with a grammage in kg/m², a gross density in kg/m³ and a material thickness in m.

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 building products for passive technical fire protection:

Cradle to Gate according to EN 15804+A1:

The system boundaries include the extraction of raw materials, the manufacture of the passive technical fire protection and the assembly of the individual components to the finished packaged passive technical fire protection 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 passive technical fire protection and the assembly of the individual components to the finished packaged passive technical fire protection 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 passive technical fire protection 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.

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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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6 Bibliography

[1] EN 13501-1:2007-02

Fire classification of construction products and building elements - Part 1: Classification using test data from reaction to fire tests.

Beuth Verlag GmbH, Berlin

[2] DIN 4102-1:1998-05

Fire behaviour of building materials and building components - Part 1: Building materials; concepts, requirements and tests.

Beuth Verlag GmbH, Berlin

[3] DIN 4102-11:1985-12

- ire behaviour of building materials and building components; pipe encasements, pipe bushings, service shafts and ducts, and barriers across inspection openings; terminology, requirements and testing. Beuth Verlag GmbH, Berlin
- [4] Research project "EPDs für transparente Bauelemente" (EPDs for transparent building components), ift Rosenheim, 2011

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Product group: Products for passive technical fire protection

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Date of release: 25.01.2018 Next revision: 25.01.2023



Publisher

ift Rosenheim GmbH Theodor-Gietl-Str. 7-9 83026 Rosenheim Phone: 0 80 31/261-0

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www.ift-rosenheim.de

Publication

PCR Products for passive technical fire protection PCR-BE-2.3 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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