

Product category rules Part B – for wall connection and weatherproofing systems

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, Wall connection, Life Cycle Assessment,
Product Category Rules



Product category rules
PCR-Part B:
Wall connection

PCR-BA-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.

The European Standards EN 15804, prEN 17662 and EN 17388 provides basic Product Category Rules for building products, services of all kinds and building processes and in particular for wall connections and weatherproofing systems. They form the basis to secure that Environmental Product Declarations for building products, services of all kinds and building processes and in particular for wall connections and weatherproofing systems 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 building body connections and sealing systems. This PCR is therefore supplementing the requirements according to EN 15804, prEN 17662 and EN 17388 and do not replace them.

Note

In prEN 17662 and EN 17388, precise specifications are made for the life cycle assessment and EPD preparation of windows, wall connections and weatherproofing systems 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
 - Sealants according to, EN 15651-1, und -2,
 - Sealing tapes tested according to DIN 18542 and/or CUAP „Sealing kits, profiles and strips usually made of foamed polyurethane, plastic impregnated bitumen, or butyl“ ETA request No 06.05/12
 - Joint sealing films and sealing films for wall connections
 - Bitumen sheets for roof waterproofing according to EN 13707
 - Plastic and elastomer sheets for roof waterproofing according to EN 13956
 - Roofing membranes made of steel, aluminum and metal

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-BA-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	10/2011	Initial verification and release	released	PCR-BA-1.0:2011
2	01/2013	Revision of the PCR	released	PCR-BA-1.1:2013
3	01/2018	Revision of the PCR	released	PCR-BA-2.1:2018
4	09/2019	Editorial changes	released	PCR-BA-2.2:2018
5	10/2021	Content changes	released	PCR-BA-2.3:2018

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:

- Sealants according to, EN 15651-1, und -2,
- Sealing tapes tested according to DIN 18542 and/or CUAP „Sealing kits, profiles and strips usually made of foamed polyurethane, plastic impregnated bitumen, or butyl“ ETA request No 06.05/12
- Joint sealing films and sealing films for wall connections
- Bitumen sheets for roof waterproofing according to EN 13707
- Plastic and elastomer sheets for roof waterproofing according to EN 13956
- Roofing membranes made of steel, aluminum and metal

3.2 Scope

These product category rules (PCR-BA-2.3) can be applied to:

- Spray able joint sealants
- Impregnable joint sealing tapes made of foam plastic
- Multifunctional sealing tapes
- Joint sealing tapes and sealing foils
- - Plaster sealing strips
- Bitumen and sealing sheets
- Metal roof sheets

3.3 Application

Brief description of the scope of the declared products.

Examples:

Assembly systems consisting of interior sealing, insulation and exterior sealing for windows and doors with 20mm connection joint and 70mm building depth of the profile

Joint sealing tapes

For professional sealing of the connection joint between window/external door/facade and external wall.

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:

Inspection:

- RAL-GZ 695 RAL- Quality association: windows, front doors, facades and conservatories

ift product certification

- QM 304 Impregnated sealing tapes made of foam plastic
- QM 338 Gaskets and gasket systems
- QM 352 Assembly of windows
- QM 359 VOC emissions from construction products
- QM 360 wall connection systems according to ift Guideline MO-01 and MO-02

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

- Spray able joint sealants
- Impregnable joint sealing tapes made of foam plastic
- Multifunctional sealing tapes
- Joint sealing tapes and sealing foils
- - Plaster sealing strips
- Bitumen and sealing sheets
- Metal roof sheets

Table 1 Characteristics and performance in the product category

	Characteristics and performance*	Unit
Obligation	Length weight	kg/m
Obligation	Grammage	kg/m ²
Obligation	Gross density	kg/m ³
Optional	Dimensions (height, length, width)	m
Optional	Weight per unit	kg/unit
Optional	Volume	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.

Verification of material properties according to QM 360 Annex 1 and ift guideline MO-01/1 Table 1.

PCR wall connection

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Anlage 1
 Zertifizierungsprogramm Baukörperanschlussysteme

QM300
 Version 1406

Anlage 1: Nachweis der Materialeigenschaften von Abdichtungssystemen

Produkt	Regelwerk	Eigenschaft/ Klassifizierung
Fugendichtungsband	DIN 18542 (Abdichten von Außenwandfugen mit imprägnierten Fugendichtungsbändern aus Schaumkunststoff)	BG 1, BG 2 oder BGR
Fugendichtstoff	DIN EN ISO 11600 (Fugendichtstoffe)	HM 25, LM 25, LM 12,5
	IVD-Merkblatt Nr. 9 (Spritzbare Dichtstoffe in der Anschlussfuge für Fenster und Außentüren)	Leistungseigenschaften gemäß Tabelle 6 IVD-Merkblatt (Prüfungen und Anforderungen an spritzbare Dichtstoffe)
Fugendichtungsfolie	Elastisch: IVD-Merkblatt Nr. 4 Abdichten von Fugen im Hochbau mit aufzuklebenden Elastomer-Fugendichtbändern	Leistungseigenschaften gemäß Abschnitt 8 IVD-Merkblatt (Anforderungen an Fugenbandsysteme)
	Plastisch: IVD-Merkblatt Nr. 5 (Abdichtungen mit Butylbändern)	Leistungseigenschaften gemäß Abschnitt 5 IVD-Merkblatt (Eigenschaften)
	Unelastisch: MO-01/1 (Baukörperanschluss von Fenster)	Leistungseigenschaften gemäß Tabelle 1, Nr. 3 bis 7
	Unelastisch: EN 13859 (Abdichtungsbahnen)	Zug-Dehnverhalten
Multifunktionsdichtungsband	DIN 18542 (Abdichten von Außenwandfugen mit imprägnierten Fugendichtungsbändern aus Schaumkunststoff)	BG 1/ BG 2 und BGR
	EN 12664 (Wärmetechnisches Verhalten von Baustoffen und Bauprodukten)	Wärmeleitfähigkeit in W/(m K)
Anputzleiste	MO-01/1 (Baukörperanschluss von Fenster)	Leistungseigenschaften gemäß Tabelle 1, Nr. 1 bis 7

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 joint sealing tapes 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:

- Joint length in m
- Joint width in mm
- Joint depth in mm
- 1 m²

Example:

The functional unit for wall connection is given as a length in m, with a length weight in kg, a width and depth in m and a gross density in kg/m³.

Note:

For bitumen membranes and waterproofing membranes, the thinnest representative product shall be selected in accordance with EN 17388.

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 joint sealing tapes:

Cradle to Gate according to EN 15804+A1:

The system boundaries include the extraction of raw materials, the manufacture of the joint sealing tapes and the assembly of the individual components to the finished packaged joint sealing tapes 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 joint sealing tapes and the assembly of the individual components to the finished packaged joint sealing tapes 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 joint sealing tapes 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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