

Product category rules Part B –

for Guide systems for cables and lines

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

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

Key words: Environmental Product Declaration, Guide systems, Cables, Lines, Life Cycle Assessment, Product Category Rules



Product category rules
PCR-Part B:
Guide systems for
cables and lines
PCR-KTS-2.0 : 2021

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 cable try systems or supporting and housing cables and/or wires as well as other electrical equipment in electrical installations and/or in communication systems according to DIN EN 61537.

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-KTS-2.0 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	03/2013	Initial verification and release	released	PCR-KTS-1.0 : 2014
2	03/2012	Editorial changes	released	PCR-KTS-1.1 : 2014
3	01/2013	Editorial changes	released	PCR-KTS-1.1 : 2014
4	11/2016	Revision of the PCR	released	PCR-KTS-2.0 : 2021

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:

- Cable tray systems according to EN 61537
- System components (e.g. cable tray length, moulded part, assembly element etc.)

3.2 Scope

These product category rules (PCR-KTS-2.0) can be applied to cable tray systems that are used to support and accommodate cables and/or conductors as well as other electrical equipment in electrical installations or communication systems in accordance with EN 61537. Cable tray systems can consist of different system components, such as cable tray length, cable support moulding, support element, mounting element and system accessories.

This PCR does not apply to electrical installation pipe systems, electrical installation duct systems and any live parts.

3.3 Application

Brief description of the scope of the declared products.

Example:

Kabeltragsysteme tragen und bringen Kabeln und/oder Leitungen sowie anderen elektrischen Betriebsmitteln in elektrischen Installationen bzw. Kommunikationssystemen unter.

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 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

- Cable tray systems according to EN 61537

Table 1 Characteristics and performance in the product category

	Characteristics and performance*	Unit
Obligation	Weight per length	kg/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.

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 cable tray systems 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, e.g. 1 m of cable tray system

Example:

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

Building components with reference to the declared unit of the following components must be described, if these are used:

- Cable tray length,
- Cable tray moulded part,
- Tray element,
- Assembly element,
- System accessoires

When specifying system accessories, the complete guiding system shall be described.

If another unit is chosen, this must 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 cable tray system:

Cradle to Gate according to EN 15804+A1:

The system boundaries include the extraction of raw materials, the manufacture of the flat glass and the assembly of the individual components to the finished packaged flat glass 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 flat glass and the assembly of the individual components to the finished packaged flat glass at the factory gate as well as the use, deconstruction, disposal and material and energy recovery of the flat glass.

Note:

For building products and materials, which are permissible 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 flat glass and its individual parts.

Cradle to Grave according to EN 15804+A2:

The system boundaries also include the assembly and the stage of 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

6 Bibliography

- [1] DIN EN 61537:2007 (VDE 0639)
Cable management - Cable tray systems and cable ladder systems (IEC 61537:2006)
Beuth Verlag GmbH, Berlin
- [2] Research project "EPDs für transparente Bauelemente" (EPDs for transparent building components), ift
Rosenheim, 2011

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