

# Product category rules Part B – for metal ceilings

## 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, metal ceilings, metal ceiling systems, Life Cycle Assessment, Product Category Rules



Product category rules  
PCR-Part B:  
Metal ceilings

PCR-MD-0.3 : 2018

### Note

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

# PCR Metal ceilings

Product group: Metal ceilings  
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Date of release: 25.01.2018  
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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 prEN 17662 provides basic Product Category Rules for building products, services of all kinds and building processes and in particular for metal ceilings. They form the basis to secure that Environmental Product Declarations for building products, services of all kinds and building processes and in particular for metal ceilings 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 metal ceilings. This PCR is therefore supplementing the requirements according to EN 15804 and prEN 17662 and do not replace them.

### Note

In prEN 17662, precise specifications are made for the life cycle assessment and EPD preparation of metal ceilings 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 metal ceilings according to EN 13964 made of steel or aluminium, with or without substructure as well as design as cooling or heating ceiling. In addition, individual parts of metal ceiling systems are also covered by this PCR.

### 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
- Lindner SE

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This PCR document with the document number PCR-MD-0.3 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	01/2018	Initial verification and release	released	PCR-MD-0.1 : 2018
2	09/2019	Editorial changes	released	PCR-MD-0.1 : 2018
3	10/2021	Content changes	released	PCR-MD-0.3 : 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:

Metal ceilings made of the main components:

- Cover layers
- Substructure parts
- fasteners
- Supplementary parts , like Light fixtures, ventilation fixtures, etc.

### 3.2 Scope

These product category rules (PCR-MD-0.3) can be applied to metal ceilings according to EN 13964. The following system components are included: cover layers, substructure parts, fasteners and supplementary parts.

Furthermore, this PCR is also valid for parts, which are used for the production of metal ceilings.

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### 3.3 Application

Brief description of the scope of the declared products.

Example:

- Wall and ceiling coverings for interior and exterior use

### 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

- Product certification according to EN 13694

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

The essential properties are to be taken from the CE marking and result from Annex ZA of EN 13964:2014. The following is an excerpt:

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**Table 1** Characteristics and performance in the product category

	Characteristics and performance*	Unit
Obligation	Grammage	kg/m <sup>2</sup>
Obligation	Weight per unit	kg/unit
Optional	Material thickness	m
Optional	Fire behavior according to EN 13501-1	-
Optional	Fire resistance according to 13501-2	-
Optional	Release of asbestos, formaldehyde and/or other hazardous substances	-
Optional	Fracture properties	-
Optional	Bending tensile strength	N/mm <sup>2</sup>
Optional	Load-bearing capacity	-
Optional	Airborne sound insulation	dB
Optional	Sound absorption rate	-
Optional	Thermal conductivity	W/(m·K)
Optional	Durability	-
	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 Declarable substances

### 4.2 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.

### 4.3 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.

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Within the framework of the EPD, further information on building certification systems can be provided.

## 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

It applies 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:

The declared unit for a metal ceiling (cover layer or system) is 1 m<sup>2</sup>.

Declared unit, the mass reference and the conversion factor to 1 kg are to be indicated in the table provided for this purpose as declared. Other declared units for the cover layers or the complete ceiling system are permitted, if the conversion to 1 m<sup>2</sup> is represented in a transparent way.

If only one declaration for a linear substructure of a metal ceiling can be created, the declared unit of 1 linear meter by a given length weight and grammage has to be used.

Example:

The functional unit for metal ceilings is given as an area in m<sup>2</sup>, with a weight per unit and a grammage in kg/m<sup>2</sup>.

### 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 ceiling:

#### **Cradle to Gate according to EN 15804+A1:**

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

– EN 13964:2014



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### 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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### **Publisher**

ift Rosenheim GmbH  
Theodor-Gietl-Str. 7-9  
83026 Rosenheim  
Phone: 0 80 31/261-0  
Fax: 0 80 31/261 290  
E-mail: [info@ift-rosenheim.de](mailto:info@ift-rosenheim.de)  
[www.ift-rosenheim.de](http://www.ift-rosenheim.de)

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ift Rosenheim GmbH  
Theodor-Gietl-Straße 7-9  
83026 Rosenheim  
Phone: +49 (0) 80 31 / 261-0  
Fax: +49 (0) 80 31 / 261-290  
E-Mail: [info@ift-rosenheim.de](mailto:info@ift-rosenheim.de)  
[www.ift-rosenheim.de](http://www.ift-rosenheim.de)