
Toplotnoizolacijski proizvodi - Pravila za kategorije proizvodov za proizvode, izdelane v obratu in na mestu vgradnje, za pripravo okoljskih deklaracij za proizvode

Thermal insulation products - Product category rules (PCR) for factory made and in-situ formed products for preparing environmental product declarations

Wärmedämmstoffe - Produktkategorieregeln (PCR) für werkmäßig hergestellte und an der Verwendungsstelle hergestellte Wärmedämmstoffe zur Erstellung von Umweltproduktdeklarationen

Produits isolants thermiques - Règles régissant les catégories de produits (RCP) pour les produits manufacturés et formés en place, destinées à la préparation des déclarations environnementales des produits

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catégories de produits (RCP) pour les produits
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werkmäßig hergestellte und an der Verwendungsstelle
hergestellte Wärmedämmstoffe zur Erstellung von
Umweltproduktdeklarationen

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 88.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (prEN 16783:2014) has been prepared by Technical Committee CEN/TC 88 “Thermal insulating materials and products”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

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Introduction

This Standard provides specific rules for the assessment and quantification of parameters describing the environmental impact of thermal insulation products to prepare environmental product declarations.

It defines the specific product category rules for thermal insulation products based on the core rules for all construction products established in EN15804. This PCR is intended to be used in conjunction with EN 15804.

This PCR applies to all CEN/TC 88 thermal insulation product Standards (EN 13162 to EN 13171, EN 14063-1, EN 14064-1, EN 14303 to EN 14309, EN 14313, EN 14314, EN 14315-1 to EN 14320, EN 14933, EN 14934, EN 15100-1, EN 15101-1, EN 15501, EN 15599-1, EN 15600-1, EN 16069) in order to minimise intra-sectoral deviations. This PCR is also valid for thermal insulation products outside of CEN/TC88 and for thermal insulation products involved in other CEN TCs.

In line with EN 15804 the results from the assessment are expressed following the modularity principle in a form that allows aggregation (addition) to provide complete information for buildings. This PCR does not deal with aggregation at the building level nor does it describe the rules for applying the environmental parameters in a building assessment.

The reduction in energy used and the reduction of emissions produced during the installed life of insulation products exceed by far the energy used and emissions made during the production and disposal processes.

NOTE The titles of the clause 3 and following are as given in EN 15804 to enhance readability.

1 Scope

This European Standard provides the product category rules (PCR) for Type III environmental declarations (according to EN 15804) for factory made and in situ thermal insulation products.

In addition to EN 15804, the PCR described in this European Standard:

- specifies the declared unit to be used; [SIST EN 16783:2017](https://standards.iteh.ai/catalog/standards/sist/0e10d645-5240-4846-bf72-456cfa868627/sist-en-16783-2017)
- defines the default system boundaries for thermal insulation products; <https://standards.iteh.ai/catalog/standards/sist/0e10d645-5240-4846-bf72-456cfa868627/sist-en-16783-2017>
- specifies/describes the default scenarios and rules for defining scenarios for each of the life cycle information modules A-D. (provides guidance for the determination of the reference service life (RSL) for thermal insulation products) ;
- specifies the way of declaring and reporting in the context of the product Standard.

This PCR is intended to be used for cradle to gate, cradle to gate with options or cradle to grave assessment, provided the intention is properly stated in the system boundary description.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13162, *Thermal insulation products for buildings – Factory made mineral wool (MW) products – Specification*

EN 13163, *Thermal insulation products for buildings – Factory made products of expanded polystyrene (EPS) – Specification*

EN 13164, *Thermal insulation products for buildings – Factory made products of extruded polystyrene foam (XPS) – Specification*

EN 13165, *Thermal insulation products for buildings – Factory made rigid polyurethane foam (PUR) products – Specification*

EN 13166, *Thermal insulation products for buildings – Factory made products of phenolic foam (PF) – Specification*

EN 13167, *Thermal insulation products for buildings – Factory made cellular glass (CG) products – Specification*

EN 13168, *Thermal insulation products for buildings – Factory made wood wool (WW) products – Specification*

EN 13169, *Thermal insulation products for buildings – Factory made products of expanded perlite (EPB) – Specification*

EN 13170, *Thermal insulation products for buildings – Factory made products of expanded cork (ICB) – Specification*

EN 13171, *Thermal insulating products for buildings – Factory made wood fibre (WF) products – Specification*

EN 13172, *Thermal insulating products – Evaluation of conformity*

EN 14063-1, *Thermal insulation materials and products - In-situ formed expanded clay lightweight aggregate products (LWA) – Part 1: Specification for the loose-fill products before installation*

EN 14064-1, *Thermal insulation products for buildings - In-situ formed loose-fill mineral wool (MW) products – Part 1: Specification for the loose-fill products before installation*

EN 14303, *Thermal insulation products for building equipment and industrial installations – Factory made mineral wool (MW) products – Specification*

EN 14304, *Thermal insulation products for building equipment and industrial installations – Factory made flexible elastomeric foam (FEF) products – Specification*

EN 14305, *Thermal insulation products for building equipment and industrial installations – Factory made cellular glass (CG) products – Specification*

EN 14306, *Thermal insulation products for building equipment and industrial installations – Factory made calcium silicate (CS) products – Specification*

EN 14307, *Thermal insulation products for building equipment and industrial installations – Factory made extruded polystyrene foam (XPS) products – Specification*

EN 14308, *Thermal insulation products for building equipment and industrial installations – Factory made rigid polyurethane foam (PUR) and polyisocyanurate foam (PIR) products – Specification*

EN 14309, *Thermal insulation products for building equipment and industrial installations – Factory made products of expanded polystyrene (EPS) – Specification*

EN 14313, *Thermal insulation products for building equipment and industrial installations – Factory made polyethylene foam (PEF) products – Specification*

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EN 14314, *Thermal insulation products for building equipment and industrial installations – Factory made phenolic foam (PF) products – Specification*

EN 14315-1, *Thermal insulating products for buildings – In-situ formed sprayed rigid polyurethane (PUR) and polyisocyanurate (PIR) foam products – Part 1: Specification for the rigid foam spray system before installation*

EN 14316-1, *Thermal insulation products for buildings – In-situ thermal insulation formed from expanded perlite (EP) products – Part 1: Specification for bonded and loose-fill products before installation*

EN 14317-1, *Thermal insulation products for buildings – In-situ thermal insulation formed from exfoliated vermiculite (EV) products – Part 1: Specification for bonded and loose-fill products before installation*

EN 14318-1, *Thermal insulating products for buildings – In-situ formed dispensed rigid polyurethane (PUR) and polyisocyanurate (PIR) foam products – Part 1: Specification for the rigid foam dispensed system before installation*

EN 14319-1, *Thermal insulating products for building equipment and industrial installations – In-situ formed dispensed rigid polyurethane (PUR) and polyisocyanurate (PIR) foam products – Part 1: Specification for the rigid foam dispensed system before installation*

EN 14320-1, *Thermal insulating products for building equipment and industrial installations – In-situ formed sprayed rigid polyurethane (PUR) and polyisocyanurate (PIR) foam products – Part 1: Specification for the rigid foam spray system before installation*

EN 15100-1, *Thermal insulating products for buildings – In-situ formed urea-formaldehyde foam (UF) products – Part 1: Specification for the foam system before installation*

EN 15101-1, *Thermal insulation products for buildings – In-situ formed loose fill cellulose (LFCI) products – Part 1: Specification for the products before installation*

EN 15501, *Thermal insulation products for building equipment and industrial installations – Factory made expanded perlite (EP) and exfoliated vermiculite (EV) products – Specification*

EN 15599-1, *Thermal insulation products for building equipment and industrial installations – In-situ thermal insulation formed from expanded perlite (EP) products – Part 1: Specification for bonded and loose-fill products before installation*

EN 15600-1, *Thermal insulation products for building equipment and industrial installations – In-situ thermal insulation formed from exfoliated vermiculite (EV) products – Part 1: Specification for bonded and loose-fill products before installation*

EN 15804, *Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products*

EN 15942, *Sustainability of construction works – Environmental product declarations – Communication format business-to-business*

EN 16069, *Thermal insulation products for buildings – Factory made products of polyethylene foam (PEF) – Specification*

EN ISO 9229, *Thermal insulation – Vocabulary (ISO 9229)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN ISO 9229 and EN 15804 apply.

4 Symbols and abbreviations

For the purpose of this document, the abbreviations given in EN ISO 9229 and EN 15804 and the abbreviations given in Annex A apply.

5 General aspects

5.1 General

See EN 15804.

5.2 Objective of the Core PCR

See EN 15804 and the Scope of this European Standard.

5.3 Types of EPD with respect to life cycle stages covered

This PCR identify three main families of EPDs:

- 1) EPDs for factory made insulation products;
- 2) EPDs for products intended to be used as in-situ insulation products before installation;
- 3) EPDs for products to be used as in-situ insulation products after installation.

For each of these EPDs, mandatory and voluntary stages to be covered are specified as in figure 1.

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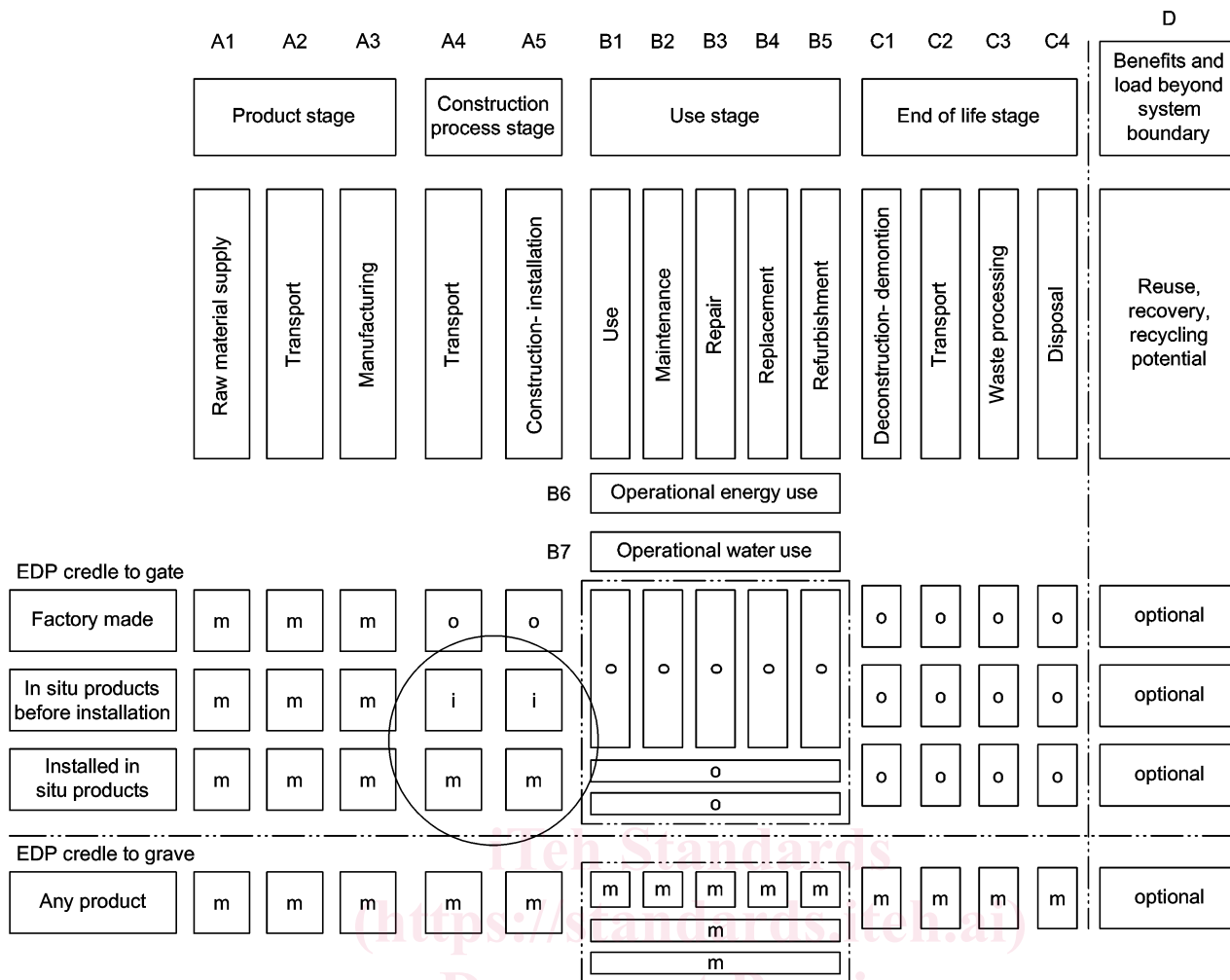


Figure 1 — Modules

SIST EN 16783:2017

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1) EPDs for factory made thermal insulation products:

- a cradle to gate EPD: modules A1, A2 and A3 mandatory;
- a cradle to gate EPD with options: modules A1, A2 and A3 mandatory, the other modules optional (i.e. cradle to gate and selected further life cycle stages) ;
- a cradle to grave EPD: modules A to C mandatory

2) EPDs for products intended to be used as in situ thermal insulation before installation:

- a cradle to gate EPD: modules A1, A2 and A3 mandatory and a mandatory description of a scenario for module A4 and A5 including the necessary activities to obtain the final insulation product out of the product;
- a cradle to gate EPD with options: modules A1, A2 and A3 mandatory, a mandatory description of a scenario for module A4 and A5 including the necessary activities to obtain the final insulation product out of the product. the other modules optional (i.e. cradle to gate and selected further life cycle stages) ;
- a cradle to grave EPD: modules A to C mandatory.