

Owner: Ribaplan Danmark ApS  
No.: MD-23133-EN  
Issued: 21-07-2023  
Valid to: 21-07-2028

3<sup>rd</sup> PARTY VERIFIED

**EPD**

VERIFIED ENVIRONMENTAL PRODUCT DECLARATION | ISO 14025 & EN 15804



**Owner of declaration**  
 Ribaplan Danmark ApS  
 Sophienlungsvej 1, 4300 Holbæk  
 CVR-nr: 33881975



**Issued:**  
 21-07-2023

**Valid to:**  
 21-07-2028

**Programme**  
 EPD Danmark  
 www.epddanmark.dk



- Industry EPD
- Product EPD

**Declared product(s)**  
 Ribaplan 28

Number of declared datasets/product variations: 1

**Production site**  
 The company operates out of the following address.  
 Sophienlungsvej 1, DK-4300 Holbæk.

The actual site of production occurs on a construction site and therefore varies. It was estimated that construction occurs on average within 24km of Copenhagen.

**Product(s) use**  
 EPS (expanded polystyrene) concrete is a lightweight and insulating material that is used as a subfloor or underlayment for flooring systems. It is made by combining EPS beads with cement and other additives. Once installed, a variety of flooring materials can be placed on top of it to provide the walking surface. Its use as a subfloor material can reduce the weight of the overall flooring system, making it a popular choice for high-rise buildings or situations where weight is a concern.

**Functional unit**  
 1 m3 of Subfloor made from Ribaplan

**Year of production site data**  
 2022

**EPD version**  
 First version

**Basis of calculation**

This EPD is developed in accordance with the European standard EN 15804+A2, and PCR16757:2022 Product Category Rules for Concrete and Concrete Elements.

**Comparability**

EPDs of construction products may not be comparable if they do not comply with the requirements in EN 15804. EPD data may not be comparable if the datasets used are not developed in accordance with EN 15804 and if the background systems are not based on the same database.

**Validity**

This EPD has been verified in accordance with ISO 14025 and is valid for 5 years from the date of issue.

**Use**

The intended use of an EPD is to communicate scientifically based environmental information for construction products, for the purpose of assessing the environmental performance of buildings.

**EPD type**

- Cradle-to-gate with modules C1-C4 and D
- Cradle-to-gate with options, modules C1-C4 and D
- Cradle-to-grave and module D
- Cradle-to-gate
- Cradle-to-gate with options

CEN standard EN 15804 serves as the core PCR
Independent verification of the declaration and data, according to EN ISO 14025
<input type="checkbox"/> internal <input checked="" type="checkbox"/> external
Third party verifier:  Charlotte B. Merlin

Martha Katrine Sørensen  
 EPD Danmark

Life cycle stages and modules (MND = module not declared)																
Product			Construction process		Use							End of life				Beyond the system boundary
Raw material supply	Transport	Manufacturing	Transport	Installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Re-use, recovery and recycling potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

# Product information

## Product description

The main product components for the uncured product are shown in the table below. Product loses 5% of water when cured

Material	% W/W of declared product
EPS	2,7%
Cement	64,4%
Water	32,2%
Additive	0,8%

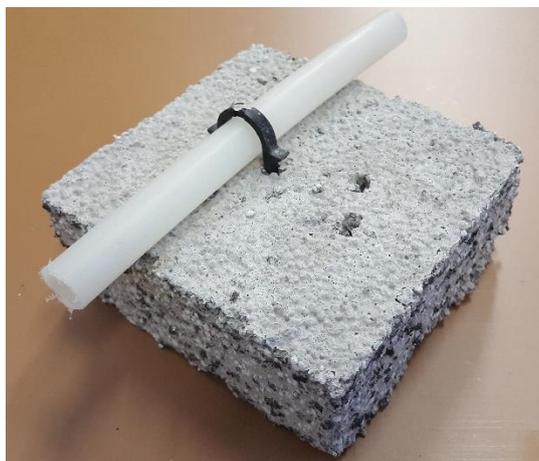
## Product packaging:

The product is formulated on the site of installation, without packaging.

## Representativity

This declaration, including data collected, modelling, and derived results, represents all lifecycle modules of Ribaplan in the geographical context of Denmark. Product specific data are based on average values collected in the period 2022. Background data are based on the GaBi 2022.2, and Ecoinvent v3.8 databases and are with one negligible exception, less than 10 years old. Generally, the used background datasets are of high quality, where most of the datasets are only a couple of years old.

## Picture of product(s)



## Hazardous substances

Ribaplan does not contain substances listed in the "Candidate List of Substances of Very High Concern for authorization"

(<http://echa.europa.eu/candidate-list-table>)

## Essential characteristics

Ribaplan is exempt from CE markings under the European standard for concrete, EN206, as it is manufactured on the construction site.<sup>1</sup>

Further technical information can be obtained by contacting the manufacturer or on the manufacturer's website:

<http://www.ribaplan.dk/>

## Reference Service Life (RSL)

> 50 years

EPS concrete is a relatively new product, and comprehensive real-world service life data is not yet available to definitively establish its long-term durability.

Above given RSL is based on values given by PCR 16757:2022.

<sup>1</sup> <https://www.concretecentre.com/Specification/Tools/CE-Marking-and-Concrete/CE-Marking-for-Engineers.aspx>

# LCA background

## Declared unit

Not applicable

## Functional unit

A functional unit was defined as opposed to a declared unit, as this LCA includes the use phase of the products lifecycle. The functional unit was defined as 1m<sup>3</sup> of subflooring made from Ribaplan 28(**Error! Reference source not found.**).

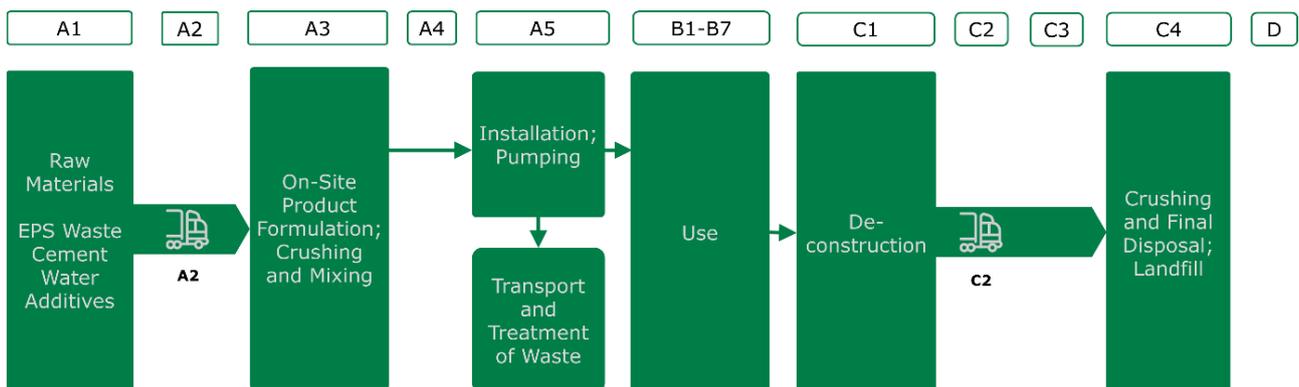
The function of subflooring is to act as a low weight surface for which a floor can be built atop, while providing sound, and heat insulating properties to the building for which it is installed.

Relevant technical specifications have been included as part of the functional unit in **Error! Reference source not found.**

The LCI and LCIA results in this EPD relates to the lifecycle of 1m<sup>3</sup> of Subflooring made from Ribaplan.

Name	Value	Unit
Functional unit	1	m <sup>3</sup>
Cured Density	413	kg/m <sup>3</sup>
Conversion factor to 1 kg.	0,002	m <sup>3</sup> /kg
Uncured Density	435	Kg/m <sup>3</sup>
Reference Service Life	>50	Years
Compressive Strength	400	kN/m <sup>2</sup>
Minimal Application Thickness	30	Mm

## Flowdiagram



## System boundary

This EPD is based on a cradle-to-grave LCA, in which over 99,9 weight-% has been accounted for.

The general rules for the exclusion of inputs and outputs follows the requirements in EN 15804,

Thermal Conductivity	0,065	W/m*K
----------------------	-------	-------

## PCR

This EPD is developed according to the core rules for the product category of construction products in EN 15804, and PCR EN16757 for concrete and concrete elements.

## Guarantee of Origin – certificates

Foreground system:

There are no "Guarantees of Origin" certificates used in the production.

Consumption of electricity is modelled with residual grid mix. Electricity is only used for crushing the EPS waste into a uniform size, pumping the concrete out during installation, as well as powering the jackhammer used in deconstruction at the end of the products lifecycle.

Background system:

Processes upstream and downstream from the production is modelled with processes from the GaBi background 2022.2, and Ecoinvent v3.8 databases, that are based on averaged data.

6.3.5, where the total of neglected input flows per module shall be a maximum of 5 % of energy usage and mass and 1 % of energy usage and mass for unit processes.

The secondary material big-bags which the EPS waste arrive packed in are excluded from the

assessment as they are reused many times and can be neglected in accordance with the above mentioned requirements.

**Product stage (A1-A3) includes:**

A1 – Extraction and processing of raw materials

A2 – Transport to the production site

A3 – Manufacturing processes

The product stage comprises the acquisition of all raw materials, and semi-finished goods, transport of these materials to production site, as well as the energy consumed by the manufacturing process. The LCA results are declared in aggregated form for the product stage, which means, that the sub-modules A1, A2 and A3 are declared as one module A1-A3.

The A2 module declares the transport of materials on to the production site which is also the construction site. A3 Declares all impacts associated with activities in the formulation of the product which occurs on the construction site. This includes the consumption of electricity to crush EPS waste and diesel to power the pump trucks mixer, which formulates the raw materials into the final product.

**Construction process stage (A4-A5) includes:**

A4 includes transportation of the product to the construction site. However as the product is formulated on the construction site, there is no transport between site of production and site of installation. Therefore all transportation of raw materials to the site of production and construction is declared under module A2.

A5 module declares the installation of Ribaplan on the construction site. It therefore includes the consumption of diesel to drive the pump, which lays Ribaplan out, for subsequent hardening into concrete floor. This module also declares the impacts associated with cleaning out residual product from the pump truck, as well as the transport of this residual material and water to a depot to be landfilled as construction waste.

Production of auxiliary goods such as the broom used to disperse the product during installation, as well as the laser leveler used to maintain a level surface of the product were excluded from the assessment. The use of these tools in the scope of this assessment are not limited to a number of installations, the uncertainty of which is relatively high.

**Use stage (B1-B7) includes:**

Subflooring made from Ribaplan is designed to be used the entire RSL without the need for maintenance or cleaning, which is also supported by the PCR. The PCR does however make prescriptions for including carbonation, and emissions to indoor air, soil or water, however these are not relevant to concrete subflooring as it wouldn't be in contact with indoor air, soil, or water as it is sealed off by the rest of the flooring system.

**End of Life (C1-C4) includes:**

Module C1 Declares the impacts associated with deconstruction of the floor, which is carried out using an electric jackhammer. This breaks the floor into pieces which are subsequently collected as mixed demolition waste, and transported by truck (C2) to a waste processing plant which crushes the waste, before landfilling it (C4).

The material cannot currently be recycled as aggregate because of the EPS contained within the concrete. In accordance with the PCR, cement in the concrete will achieve 75% of the maximum theoretical carbon uptake via the process of carbonation during landfilling.

**Re-use, recovery and recycling potential (D) includes:**

No benefits are derived outside of the system, as the product reaches final disposal as construction waste on landfill.

# LCA results

The LCIA results are calculated using GaBi 10.7 with database version 2022.2, and using the characterization model defined in GaBi as EN15804+A2 for classifying and characterizing input and output flows. In some instances supplementary data was sourced from the Ecoinvent 3.8 database.

ENVIRONMENTAL IMPACTS PER M3 OF RIBAPLAN 28 SUBFLOORING										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP-total	[kg CO <sub>2</sub> eq.]	2,58E+02	0,00E+00	1,33E+00	0,00E+00	6,81E-02	8,73E+00	0,00E+00	-9,57E+01	0,00E+00
GWP-fossil	[kg CO <sub>2</sub> eq.]	2,57E+02	0,00E+00	1,31E+00	0,00E+00	6,81E-02	8,57E+00	0,00E+00	-9,56E+01	0,00E+00
GWP-biogenic	[kg CO <sub>2</sub> eq.]	8,81E-01	0,00E+00	1,66E-02	0,00E+00	-1,17E-08	1,03E-01	0,00E+00	-1,81E-01	0,00E+00
GWP-luluc	[kg CO <sub>2</sub> eq.]	1,10E-01	0,00E+00	9,41E-03	0,00E+00	4,83E-06	5,67E-02	0,00E+00	1,26E-02	0,00E+00
ODP	[kg CFC 11 eq.]	1,02E-06	0,00E+00	1,85E-13	0,00E+00	9,53E-13	8,46E-13	0,00E+00	1,45E-11	0,00E+00
AP	[mol H <sup>+</sup> eq.]	3,06E-01	0,00E+00	6,64E-02	0,00E+00	5,21E-05	2,50E-02	0,00E+00	4,40E-02	0,00E+00
EP-freshwater	[kg P eq.]	2,09E-03	0,00E+00	5,14E-06	0,00E+00	1,13E-08	3,01E-05	0,00E+00	1,11E-05	0,00E+00
EP-marine	[kg N eq.]	1,02E-01	0,00E+00	3,43E-02	0,00E+00	1,89E-05	7,87E-03	0,00E+00	1,13E-02	0,00E+00
EP-terrestrial	[mol N eq.]	1,11E+00	0,00E+00	3,77E-01	0,00E+00	2,04E-04	8,93E-02	0,00E+00	1,24E-01	0,00E+00
POCP	[kg NMVOC eq.]	2,99E-01	0,00E+00	9,75E-02	0,00E+00	5,19E-05	2,13E-02	0,00E+00	3,42E-02	0,00E+00
ADPm <sup>1</sup>	[kg Sb eq.]	6,27E-05	0,00E+00	1,42E-07	0,00E+00	1,69E-08	8,61E-07	0,00E+00	1,10E-06	0,00E+00
ADPf <sup>1</sup>	[MJ]	9,16E+02	0,00E+00	1,85E+01	0,00E+00	1,14E+00	1,15E+02	0,00E+00	8,32E+01	0,00E+00
WDP <sup>1</sup>	[m <sup>3</sup> world eq. deprived]	1,32E+01	0,00E+00	5,35E-01	0,00E+00	9,13E-04	9,48E-02	0,00E+00	6,91E-01	0,00E+00
Caption	GWP-total = Globale Warming Potential - total; GWP-fossil = Global Warming Potential - fossil fuels; GWP-biogenic = Global Warming Potential - biogenic; GWP-luluc = Global Warming Potential - land use and land use change; ODP = Ozone Depletion; AP = Acidification; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPf = Abiotic Depletion Potential – fossil fuels; WDP = water depletion potential									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									
Disclaimer	<sup>1</sup> The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.									

ADDITIONAL ENVIRONMENTAL IMPACTS PER M3 OF RIBAPLAN 28 SUBFLOORING										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PM	[Disease incidence]	6,12E-06	0,00E+00	1,36E-06	0,00E+00	5,81E-10	3,11E-07	0,00E+00	5,42E-07	0,00E+00
IRP <sup>2</sup>	[kBq U235 eq.]	3,54E+00	0,00E+00	5,51E-03	0,00E+00	1,47E-02	3,18E-02	0,00E+00	1,01E-01	0,00E+00
ETP-fw <sup>1</sup>	[CTUe]	4,13E+02	0,00E+00	1,37E+01	0,00E+00	2,62E-01	8,12E+01	0,00E+00	4,70E+01	0,00E+00
HTP-c <sup>1</sup>	[CTUh]	2,96E-08	0,00E+00	1,27E-08	0,00E+00	6,89E-12	1,67E-09	0,00E+00	6,96E-09	0,00E+00
HTP-nc <sup>1</sup>	[CTUh]	1,65E-06	0,00E+00	7,51E-08	0,00E+00	2,32E-10	9,13E-08	0,00E+00	7,68E-07	0,00E+00
SQP <sup>1</sup>	-	3,88E+02	0,00E+00	7,78E+00	0,00E+00	4,24E-02	4,68E+01	0,00E+00	1,78E+01	0,00E+00
Caption	PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Soil Quality (dimensionless)									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									
Disclaimers	<sup>1</sup> The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.									
	<sup>2</sup> This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.									

RESOURCE USE PER M3 OF RIBAPLAN 28 SUBFLOORING										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	[MJ]	2,78E+02	0,00E+00	1,30E+00	0,00E+00	2,94E-01	7,67E+00	0,00E+00	1,23E+01	0,00E+00
PERM	[MJ]	0,00E+00								
PERT	[MJ]	2,78E+02	0,00E+00	1,30E+00	0,00E+00	2,94E-01	7,67E+00	0,00E+00	1,23E+01	0,00E+00
PENRE	[MJ]	4,43E+02	0,00E+00	1,86E+01	0,00E+00	1,14E+00	1,15E+02	0,00E+00	8,33E+01	0,00E+00
PENRM	[MJ]	4,73E+02	0,00E+00							
PENRT	[MJ]	9,17E+02	0,00E+00	1,86E+01	0,00E+00	1,14E+00	1,15E+02	0,00E+00	8,33E+01	0,00E+00
SM	[kg]	1,16E+01	0,00E+00							
RSF	[MJ]	0,00E+00								
NRSF	[MJ]	0,00E+00								
FW	[m <sup>3</sup> ]	4,23E-01	0,00E+00	1,36E-02	0,00E+00	1,72E-04	8,87E-03	0,00E+00	2,10E-02	0,00E+00
Caption	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non renewable primary energy excluding non renewable primary energy resources used as raw materials; PENRM = Use of non renewable primary energy resources used as raw materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

WASTE CATEGORIES AND OUTPUT FLOWS PER M3 OF RIBAPLAN 28 SUBFLOORING										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
HWD	[kg]	4,31E-08	0,00E+00	1,11E-10	0,00E+00	5,57E-11	6,04E-10	0,00E+00	4,17E-09	0,00E+00
NHWD	[kg]	2,72E+00	0,00E+00	1,26E+00	0,00E+00	4,15E-04	1,85E-02	0,00E+00	4,14E+02	0,00E+00
RWD	[kg]	2,73E-02	0,00E+00	3,72E-05	0,00E+00	1,33E-04	2,11E-04	0,00E+00	9,05E-04	0,00E+00
CRU	[kg]	0,00E+00								
MFR	[kg]	0,00E+00								
MER	[kg]	0,00E+00								
EEE	[MJ]	0,00E+00								
EET	[MJ]	0,00E+00								
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.									

BIOGENIC CARBON CONTENT PER M3 OF RIBAPLAN 28 SUBFLOORING		
Parameter	Unit	At the factory gate
Biogenic carbon content in product	[kg C]	5,42E-01
Biogenic carbon content in accompanying packaging	[kg C]	0,00E+00
Note	1 kg biogenic carbon is equivalent to 44/12 kg of CO <sub>2</sub>	

# Additional information

## LCA interpretation

The tables below show the processes contributing the most to the specific impact categories, and how much they contribute to the given environmental impact category.

The contributions (in percentages) are expressed relative to the total impacts, which is a result of both impacts (positive values) and savings from processes such as recycling and energy recovery (negative values).

ENVIRONMENTAL IMPACTS				
Impact Category	Unit	Maximum contribution on category	Process	Percentage of category
Climate Change - total	[kg CO <sub>2</sub> eq.]	2,43E+02	A1_Cement	67%
Climate Change, fossil	[kg CO <sub>2</sub> eq.]	2,42E+02	A1_Cement	67%
Climate Change, biogenic	[kg CO <sub>2</sub> eq.]	8,35E-01	A1_Cement	49%
Climate Change, land use and land use change	[kg CO <sub>2</sub> eq.]	5,67E-02	C2_Transport	30%
Ozone depletion	[kg CFC 11 eq.]	1,02E-06	A1_Rhiofin	100%
Acidification	[mol H <sup>+</sup> eq.]	1,95E-01	A1_Cement	44%
Eutrophication, freshwater	[kg PO <sub>4</sub> eq.]	1,95E-03	A1_Rhiofin	91%
Eutrophication, marine	[kg N eq.]	5,71E-02	A1_Cement	37%
Eutrophication, terrestrial	[mol N eq.]	6,21E-01	A1_Cement	36%
Photochemical ozone formation, human health	[kg NMVOC eq.]	1,72E-01	A1_Cement	38%
Resource use, mineral and metals	[kg Sb eq.]	5,01E-05	A1_Rhiofin	77%
Resource use, fossils	[MJ]	6,90E+02	A1_Cement	61%
Water use	[m <sup>3</sup> ]	6,04E+00	A1_Water	42%

## Technical information on scenarios

### Transport to the building site (A4)

Not applicable

### Installation of the product in the building (A5)

Scenario information	Value	Unit
Water used for cleaning	12	kg
Diesel	16,1	MJ
Product lost as waste	1,25	kg
Output materials (Subflooring)	413	kg
Direct emissions to air, soil or water	1,25	kg
Water loss as vapor during curing	21,8	kg
CO <sub>2</sub> uptake from carbonation of product loss	0,293	kg

## Reference service life

RSL information		Unit
Reference service Life	>50	Years
Declared product properties	Further technical information can be obtained by contacting the manufacturer or on the manufacturer's website: <a href="http://www.ribaplan.dk/">http://www.ribaplan.dk/</a>	As appropriate
Design application parameters		As appropriate
Assumed quality of work		As appropriate
Outdoor environment		As appropriate
Indoor environment		As appropriate

Usage conditions		As appropriate
Maintenance		As appropriate

**Use (B1-B7)**

In accordance with EN16757:2017, Subflooring does not have any impacts associated with its use phase that can be declared in B1-B7.

**End of life (C1-C4)**

Scenario information	Value	Unit
Collected with mixed waste	413	kg
For reuse	-	kg
For recycling	-	kg
For energy recovery	-	kg
For final disposal	413	kg
Carbonation	102	kgCO2

**Re-use, recovery and recycling potential (D)**

No benefits are derived outside of the system, as the product reaches final disposal as construction waste on landfill.

**Indoor air**

*The EPD does not give information on release of dangerous substances to indoor air because the horizontal standards on the relevant measurements are not available. Read more in EN15804+A1 chapter 7.4.1.*

**Soil and water**

*The EPD does not give information on release of dangerous substances to soil and water because the horizontal standards on the relevant measurements are not available. Read more in EN15804+A1 chapter 7.4.2.*

## References

<p><b>Publisher</b></p>	<p> epddanmark</p> <p>www.epddanmark.dk  <small>Template version 2023.1</small></p>
<p><b>Program operator</b></p>	<p> <b>TEKNOLOGISK INSTITUT</b>          Danish Technological Institute          Buildings &amp; Environment          Gregersensvej          DK-2630 Taastrup          www.teknologisk.dk</p>
<p><b>LCA-practitioner</b></p>	<p> <b>TEKNOLOGISK INSTITUT</b>          Danish Technological Institute          Buildings &amp; Environment          Gregersensvej          DK-2630 Taastrup  <a href="http://www.teknologisk.dk/">http://www.teknologisk.dk/</a></p>
<p><b>LCA software /background data</b></p>	<p> <b>sphera®</b>          Sphera GaBi 10.7          Database version 2022.2  <a href="http://www.gabi-software.com">www.gabi-software.com</a></p>
<p><b>3<sup>rd</sup> party verifier</b></p>	<p>          Charlotte Merlin          FORCE Technology          Park Alle 345          DK-2605 Brøndby  <a href="https://forcetechnology.com/">https://forcetechnology.com/</a></p>

**General program instructions**

General Program Instructions, version 2.0, spring 2020  
 www.epddanmark.dk

**EN 15804**

DS/EN 15804 + A2:2019 – “Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products”

**EN 16757**

EN 16757:2022 – “Product Category Rules for concrete and concrete elements”

**EN 15942**

DS/EN 15942:2011 – “Sustainability of construction works – Environmental product declarations – Communication format business-to-business”

**ISO 14025**

DS/EN ISO 14025:2010 – “Environmental labels and declarations – Type III environmental declarations – Principles and procedures”

**ISO 14040**

DS/EN ISO 14040:2008 – “Environmental management – Life cycle assessment – Principles and framework”

**ISO 14044**

DS/EN ISO 14044:2008 – “Environmental management – Life cycle assessment – Requirements and guidelines”