

ENVIRONMENTAL PRODUCT DECLARATION IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

[Image of the product]

[Product name]

[Company name]

[Company logo]



Program:	Rakennustieto EPD
EPD number:	RTS_XXX_YY
Publication date:	dd.mm.yyyy [revision dd.mm.yyyy]
Validity date:	dd.mm.yyyy

General information

Manufacturer information:

Manufacturer:	
Address:	
Contact:	
Website	
Other information:	{e.g. quality management systems, EMAS registrations etc.}

{If EPD represents products from several manufacturers, the list of manufacturers is needed.}

Product information

Product name:	
Product identification:	{e.g. UNSPSC, CPC codes, or unique codes}
Place(s) of production:	
[Declared or functional unit]	[unit and conversion to kg, if needed]
The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category may not be comparable if they do not follow the same PCR or be based on fully-aligned PCRs or versions of PCRs; cover identical functions, technical performances and use. EPD of construction products may not be comparable if they do not comply with EN15804 and seen in a building context.	

EPD information

Program	Rakennustieto EPD
Operator:	Rakennustieto Oy
Address:	Malminkatu 16A, 00100 Helsinki, Finland
Website:	https://ymparisto.rakennustieto.fi/
Email:	epd@rakennustieto.fi
EPD standard:	The declaration has been prepared in accordance with EN 15804:2012+A2:2019/AC:2021 and ISO 14025.
Product category rules:	The CEN standard EN 15804 serves as the core PCR. In addition, the RTS PCR 2024, version 12.11.2024, is used. [possible cPCR, if applicable]
EPD author:	
EPD verifier:	
Verification date:	
EPD number:	
Publishing date:	
{Revision date if relevant}	
EPD valid until:	



Jukka Seppänen
RTS EPD Committee Secretary



Laura Apilo
Managing Director

Verification statement

Verified according to the requirements of EN 15804+A2 (product category rules)	
Independent verification of the declaration, according to EN ISO 14025:2010	
☒ External	☐ Internal
Third party verifier:	
[signature]	
Name [company]	

Product information

Product description

[Description of the product, technical properties, functions, standards, applications and its use]

Content declaration

Product content	Mass, kg	Recycled material, mass-% of material	Biogenic material, mass-% of material	Origin of the materials
Material/substance 1				
Material/substance 2				
Material/substance 3				
...				
TOTAL				

Packaging materials	Mass, kg	Mass-% of total packaging	Biogenic material, mass-% of material	Origin of the materials
Material 1				
Material 2				
Material				
...				
TOTAL				
1 kg biogenic carbon in the product/packaging is equivalent to 44/12 kg of CO ₂ .				

[The mass of packaging per declared or functional unit shall be declared.]

Biogenic carbon content at the factory gate	kg C per [functional unit or declared] unit
Biogenic carbon content in product	
Biogenic carbon content in packaging	
1 kg biogenic carbon in the product/packaging is equivalent to 44/12 kg of CO ₂ .	

If the mass of biogenic carbon containing materials in the product is less than 5 % of the mass of the product, the declaration of biogenic carbon content may be omitted.

If the mass of biogenic carbon containing materials in the packaging is less than 5 % of the total mass of the packaging, the declaration of the biogenic carbon content of the packaging may be omitted.

Substances on the candidate list of SVHC

[The amount of substances contained in the product that are listed in the “Candidate List of Substances of Very High Concern for authorisation” when their content exceeds the limits for registration with the European Chemicals Agency OR mention that these substances are not present.]

Substances from the candidate list of SVHC	EC number	CAS number	Weight-% of total
Substance 1			

LCA information

Functional unit or declared unit

[Conversion to kilograms if needed]

[Statement if EPD is specific or either averaging or worst case is used]

[Description of the type of average, calculation rules and representativeness.]

[If EPD represents products from **several manufacturers**, the list of manufacturers in the group is needed and the proportion of each manufacturer on the total representativeness]

[For EPD of multiple products, variations above 10% in GWP total in A1-A3 shall be reported separately with the names of producers and/or products. In such cases an explanation of the variation and the names of the products shall (in the LCA information section) be declared. EPDs based on worst-case results are exempted from the requirement to declare the variation if above 10%.]

Data quality

[Temporal, geographical and technological representativeness, completeness, consistency, precision, sources of data for both process-specific and generic data]

System Boundary

[Description of the EPD system boundary as

- “cradle-to-gate with modules C1-C4 and module D”,
- “cradle-to-gate with options, modules C1-C4, module D and optional modules”,
- “cradle-to-grave and module D”,
- “cradle to gate”,
- “cradle to gate with options”

And the figure below altered to the modules. Products using energy in the use stage, directly or indirectly, shall include module B6.]

	Product stage			Assembly stage		Use stage							End of life stage				Beyond the system boundaries
	Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/ demolition	Transport	Waste processing	Disposal	Reuse, recovery, recycling
module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
declared	x	x	x	ND	ND	ND	ND	ND	ND	ND	ND	ND	x	x	x	x	x

geography																	
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Modules / stages declared shall be noted with “X”

Modules / stages not declared shall be noted with “ND”

Production process diagram

[a diagram and explaining text]

Allocation, estimates and assumptions

Background database and LCA program

[database description and version, LCA software or application, including dated version]

[A statement that the applied allocation method for post-consumer waste is cut-off]

[A statement which version of Characterisation factors was used, ensuring the latest version has been used.]

Environmental performance

Core environmental impact indicators [per declared/functional unit in kg]

Indicators	Unit	A1-A3	C1	C2	C3	C4	D
Global Warming Potential total (GWP-total)	kg CO ₂ eq.						
Global Warming Potential fossil fuels (GWP-fossil)	kg CO ₂ eq.						
Global Warming Potential biogenic (GWP-biogenic)	kg CO ₂ eq.						
Global Warming Potential land use and land use change (GWP-luluc)	kg CO ₂ eq.						
Depletion potential of the stratospheric ozone layer (ODP)	kg CFC 11 eq.						
Acidification potential, Accumulated Exceedance (AP)	mol H ⁺ eq.						
Eutrophication potential, fraction of nutrients reaching freshwater end compartment (EP-freshwater)	kg PO ₄ - eq.						
Eutrophication potential, fraction of nutrients reaching marine end compartment (EP-marine)	kg N eq.						
Eutrophication potential, Accumulated Exceedance (EP-terrestrial)	mol N eq.						
Formation potential of tropospheric ozone (POCP)	kg NMVOC eq.						
Abiotic depletion potential for non-fossil resources (ADP-minerals&metals)	kg Sb eq.						
Abiotic depletion for fossil resources potential (ADP-fossil)	MJ, net calorific value						
Water (user) deprivation potential, deprivation-weighted water consumption (WDP)	M3world eq. deprived						

Additional environmental impact indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
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Potential incidence of disease due to PM emissions (PM)	Incidence of disease						
Potential Human exposure efficiency relative to U235 (IRP)	kBq U235 eq.						
Potential Comparative Toxic Unit for ecosystems (ETP-fw)	CTUe						
Potential Comparative Toxic Unit for humans (HTP-c)	CTUh						
Potential Comparative Toxic Unit for humans (HTP-nc)	CTUh						
Potential soil quality index (SQP)	Dimensionless						

Resource use indicators

Use of natural resources	Unit	A1-A3	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	MJ						
Use of renewable primary energy resources used as raw materials	MJ						
Total use of renewable primary energy resources	MJ						
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ						
Use of non-renewable primary energy resources used as raw materials	MJ						
Total use of non-renewable primary energy resources	MJ						
Use of secondary material	kg						
Use of renewable secondary fuels	MJ						
Use of non-renewable secondary fuels	MJ						
Net use of fresh water	m3						

End of life - Waste indicators

Waste categories	Unit	A1-A3	C1	C2	C3	C4	D
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Hazardous waste disposed	kg						
Non-hazardous waste disposed	kg						
Radioactive waste disposed	kg						

End of life - output flow indicators

Other environmental indicators	Unit	A1-A3	C1	C2	C3	C4	D
Components for reuse	kg						
Materials for recycling	kg						
Materials for energy recovery	kg						
Exported energy (heat)	MJ						
Exported energy (electricity)	MJ						

Scenario documentation

Manufacturing energy scenario

Scenario parameter	Value
[Electricity data source and quality]	
[Electricity CO2e / kWh]	

Transport scenario A4

Scenario parameter	Value
[Specific transport CO2e emissions, kg CO2e / tkm]	
[Average transport distance, km]	
[Capacity utilization (including empty return), %]	
[Bulk density of transported products, kg/m3]	
[Volume capacity utilisation factor (factor: =1 or <1 or ≥ 1 for compressed or nested packaged products)]	

End of life scenario

Process flow		Mass
Collection process specified by type	collected separately, kg	
	mixed construction waste, kg	
Recovery system	for reuse, kg	
	for recycling, kg	
	for energy recovery, kg	
Disposal	final deposition, kg	

Assumptions for the scenario development		[transportation distance N km, with a truck Capacity utilization of 50%
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[Results of main environmental impacts per kilogram OPTIONAL]

Data content	unit	A1-A3	C1	C2	C3	C4	D
Global Warming Potential total (GWP-total)	kg CO2 eq.						
Global Warming Potential fossil fuels (GWP-fossil)	kg CO2 eq.						
Global Warming Potential biogenic (GWP-biogenic)	kg CO2 eq.						
Global Warming Potential land use and land use change (GWP-luluc)	kg CO2 eq.						
Abiotic depletion potential for non-fossil resources (ADP-minerals&metals)	kg Sb eq.						
Abiotic depletion for fossil resources potential (ADP-fossil)	MJ, net calorific value						
Water (user) deprivation potential, deprivation, weighted water consumption (WDP)	m3 world eq. deprived						
Use of secondary material	kg/kg						

Bibliography

[Revision history]