Environmental Product Declaration



In accordance with ISO 14025 and EN 15804

Product name

from

Company name

[Company logotype placeholder]

Program

Program operator

EPD registration

number

Publication date

Valid until

EPD

Thailand Environmental Institute

XXXXX

202X-XX-YY

202X-XX-YY

Picture

General information

Programme information

Programme	The International EPD® System						
	Thailand Environment Institute Foundation (TEI)						
Address	16/151 Muang Thong Thani, Bond Street, Bangpood,						
	Pakkred, Nonthaburi THAILAND 11120						
Website	www.tei.or.th						
E-mail	greenlabelthailand@tei.or.th						

Accountabilities for PCR, LCA and independent, third-party verification

Product Category Rules (PCR)	<name, and="" code(s)="" cpc="" number,="" registration="" un="" version=""></name,>
PCR review was conducted by	<name and="" chair="" chair,="" contact="" how="" information="" of="" on="" operator="" organisation="" programme="" review="" the="" through="" to=""></name>
LCA accountability	<name, organization=""></name,>
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via	☐ EPD verification by individual verifier ☐ EPD verification by accredited certification body ☐ EPD verification by EPD Process Certification <name, organisation=""></name,>

Company information

Company Information						
Owner of the EPD	[Company]					
Contact	[Contact person]					
Description of the organisation	[]					
Due divist included an income and	[e.g. ISO 14024 Type I environmental labels, ISO 9001-					
Product-related or management	and 14001-certificates, EMAS-registrations, SA 8000,					
system-related certifications	supply chain management and social responsibility]					
Name and location of						
production site(s)	[]					
Product name						
Due de et description	[product description, application/intended use,					
Product description	technical functions, e.g. expected service life time]					
	Figure of product					

LCA information

Functional Unit	
Reference service life	
System boundaries	[B2B, B2C]
Description of system boundaries	[a) Cradle to gate with modules C1–C4 and module D (A1–A3 + C + D); b) Cradle to gate with options, modules C1–C4, module D and with optional modules (A1–A3 + C + D and additional modules). The additional modules may be one or more selected from A4–A5 and/or B1–B7.; c) Cradle to grave and module D (A + B + C + D); d) Cradle to gate (A1–A3); e) Cradle to gate with options (A1–A3 and additional modules). The additional modules may be A4 and A5; f) Construction service EPD: Cradle to gate with modules A1-A5, modules C1-C4 and module D. Such an EPD will potentially be used as an information module in any life cycle stage B or C for a construction works. Information on which lifecycle stages are not considered (if any), with a justification for the omission]

System diagram:		
	[Image placeholder for system diagram]	

More information: [any relevant websites for more information or explanatory materials.

Name and contact information of LCA practitioner: optional, name and contact information of the organisation carrying out the underlying LCA study

Additional information: optional, any additional information about the underlying LCA-based information, such as assumptions, cut-off rules, data quality, and allocation.

If the electricity in module A3 accounts for more than 30% of the total energy in stage A1 to A3, the energy sources behind the electricity grid in module A3 shall be declared along with the climate impact of the electricity in g CO2 eq./kWh.

Information about scenarios and additional technical information as per Section 7.1 in EN 15804, when applicable.]

Modules declared, geographical scope, share of specific data (in GWP-GHG indicator) and data variation:

	Prod	uct st	tage	pro	ruction cess age		Use stage End of life stage							Resource recovery stage			
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling- potential
Module	A1	A2	А3	A4	A5	B1	B2	В3	В4	B5	В6	В7	C1	C2	C3	C4	D
Modules declared																	
Geography																	
Specific data used								-	- 1	1	-	- 1	- 1	-	-	-	
Variation – products						-			-	- 1	-	-	-	-	-	-	-
Variation – sites						-			-	-	-	-	-	-	-	-	-

The table is adapted for physical products and may have to be modified when declaring service products.

Content information

Product components	Weight, kg	Post-consumer material, weight-%	Renewable material, weight-%
Material 1 / Chemical substance 1			
Material 2 / Chemical substance 2			
TOTAL			
Packaging materials	Weight, kg	Weight-% (versus the produ	uct)
Material 1			
Material 2			

TOTAL		

Dangerous substances from the candidate list of SVHC for Authorisation	EC No.	CAS No.	Weight-% per functional or declared unit
Substance 1			
Substance 2			

Environmental Information

For construction services, the total value of A1-A3 shall be replaced with the total value of A1-A5.

Potential environmental impact – mandatory indicators according to EN 15804

	Results per functional or declared unit																		
Indicator	Unit	A1	A2	A3	Tot. A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
GWP-fossil	$kg CO_2$ eq.																		
GWP-	kg CO ₂																		
biogenic	eq.																		
GWP-	kg CO ₂																		
luluc	eq.																		
GWP-	kg CO ₂																		
total	eq.																		
ODP	kg CFC 11 eq.																		
AP	mol H ⁺ eq.																		
EP-	kg PO ₄ ³⁻																		
freshwater	eq.																		
EP- freshwater	kg P eq.																		
EP- marine	kg N eq.																		
EP- terrestrial	mol N eq.																		

POCP	kg NMVOC eq.													
ADP- minerals&m etals*	kg Sb eq.													
ADP-fossil*	MJ													
WDP	m ³													
Acronyms	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 = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption													

^{*} Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

Additional information

See sections 5.4, 7.3 and 7.4 in EN 15804

An EPD may include additional environmental information not derived from the LCA-based calculations. In general, this part of the EPD describing additional environmental information may include various issues e.g. on specific information about the use and end-of-life, which has a special value covering e.g.:

- instruction for a proper use of the product, e.g. to minimise the energy or water consumption or to improve the durability of the product;
- instructions for a proper maintenance and service of the product;
- information on key parts of the product determining its durability;
- information on recycling including e.g. suitable procedures for recycling the entire product or selected parts and the potential environmental benefits gained;
- information on a suitable method of reuse of the product (or parts of the products) and procedures for disposal as waste at the end of its life cycle, and
- information regarding disposal of the product or inherent materials, and any other information considered necessary to minimise the product's end-of-life impacts.

Additional information can also include information on carbon offset, carbon storage and delayed emissions, or on release of dangerous substances to indoor air, soil and water during the use stage.

Additional environmental information can also include a more detailed description of an

organisation's overall environmental work such as:

- the existence of a quality or environmental management system or any type of organised environmental activity;
- any activity related to supply chain management, social responsibility, etc., and
- information on where interested parties may find more details about the organisation's environmental work.

It is recommended to add information enabling the possibility to make comparisons with sector benchmarks or, if not available, with benchmarks of common products and services preferably based on the concept of functional unit or declared unit, which is useful for scaling the environmental impacts of different activities, products, and services.

It is also recommended to include additional environmental impact indicators from EN 15804 to facilitate modularity,

The PCR shall give further information on relevant additional information to include in the EPD

Information related to Sector EPD

For sector EPDs, the following information shall be included:

- a list of the contributing manufacturers that the Sector EPD covers,
- a description of how the selection of the sites/products has been done and how the average has been determined, and
- a statement that the document covers average values for an entire or partial product category (specifying the percentage of representativeness) and, hence, the declared product is an average that is not available for purchase on the market

Differences versus previous versions

For EPDs that have been updated, the following information shall be included:

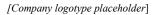
- a description of the differences versus previously published versions, e.g. a description of the percentage change in results and the main reason for the change;
- a revision date on the cover page (see Section 5.3.1 in PCR 2019:14)

References

General Programme Instructions of the International $\ensuremath{\mathsf{EPD}}^{\ensuremath{\texttt{0}}}$ System. Version 3.01.

PCR 2019:14. Name. Version

Other references to be added, e.g. c-PCR used





Sign	Verifier
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Date/	/