

# ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025 / ISO 21930

iQ LOOP

TARKETT S.A



Programme: The international EPD® system, [www.environdec.com](http://www.environdec.com)

Programme operator: EPD International AB

EPD registration number: S-P-12403

Publication date: 13-07-2024

Valid until: 09-07-2029

Geographical scope: Europe

This EPD is a product specific EPD with cradle-to-gate with modules C1–C4, module D and optional modules.

*Product recently on the market – Results of this EPD shall be used with care as the LCI data is not yet based on 1 year of production which may result in increased uncertainty.*

*An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at [www.environdec.com](http://www.environdec.com).*

## GENERAL INFORMATION

### MANUFACTURER INFORMATION

Manufacturer	TARKETT
Address	Tarkett La Défense, 1 Terrasse Bellini 92400 Paris
Contact details	myriam.tryjefaczka@tarkett.com
Website	www.tarkett.com

### PRODUCT IDENTIFICATION

Product name	iQ LOOP
Additional label(s)	iQ LOOP
Place(s) of production	Ronneby, Sweden
CPC code	APE/NAF - 2223Z

The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but registered in different EPD programmes may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison.

### EPD INFORMATION

EPD program operator	EPD International AB Box 210 60, SE-100 31 Stockholm, Sweden. Email: info@environdec.com
EPD standards	This EPD is in accordance with EN 15804+A2 and ISO 14025 standards.
Product category rules	The CEN standard EN 15804 serves as the core PCR. In addition, ISO 21930, PCR 2019:14 version 1.3.3 and c-PCR-004 Resilient textile and laminate floor coverings (EN 16810) is used.
EPD author	Juliette Pouansi, Tarkett
EPD verification	Independent verification of this EPD and data, according to ISO 14025: <input type="checkbox"/> Internal verification <input checked="" type="checkbox"/> External verification
Verification date	10-07-2024
EPD verifier	Anni Oviir, Rangi Maja OÜ.
EPD number	S-P-12403
ECO Platform nr.	S-P-12403
Publishing date	13-07-2024
EPD valid until	09-07-2029

## PRODUCT INFORMATION

### PRODUCT DESCRIPTION

iQ Loop products are homogeneous vinyl floorings. They are tough and ultradurable solutions for heavy and very heavy traffic areas, especially recommended for applications in healthcare and education for their resistance and ease of cleaning. Composed of a single compact layer of vinyl, homogeneous vinyl floors are glued to the subfloor and welded for optimal durability and hygiene. The service lifetime recommended by Tarkett is 30 years.

### PRODUCT APPLICATION

The product is classified in accordance with EN ISO 10874. EN 685 and in reference to the FCSS (Floor Covering Standard Symbols) to be installed in various areas of application, such as: healthcare, education, commercial, education. The area of use according to the ISO 10874 is very heavy (34) for commercial classification and heavy (43) for industrial classification.

### TECHNICAL SPECIFICATIONS

### PRODUCT STANDARDS

Homogeneous poly (vinyl chloride) floor covering (ISO 10581)

### PHYSICAL PROPERTIES OF THE PRODUCT

<https://www.tarkett.com/>

### ADDITIONAL TECHNICAL INFORMATION

Further information can be found at [www.tarkett.com](http://www.tarkett.com).

## PRODUCT RAW MATERIAL COMPOSITION

Product and Packaging Material	Weight, kg	Post-consumer material, weight-%	Biogenic material, weight-% and kg C/kg
PVC suspension	0.43	0	0
Plasticizer	0.14	0	0
Stabilizers	0.049	0	86
Mineral Fillers	0.322	0	0
Pigments	0.0018	0	0
Surface Treatment	0.007	0	0
Additives	0.018	0	0
Post installation and post use recycled flooring	1.80	100%	0
Total Product Weight	2.80	65%	1.5%
Packaging Cardboard	0.0402	0	0
Packaging HDPE	0.0052	0	0
Packaging LDPE	0.0152	0	0
Total Packaging Weight	0.0606	0	0

## PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass- %	Material origin
Metals	-	
Minerals	11,6	Pigments, Mineral Fillers
Fossil materials	21,9	Polymers, plastics
Bio-based materials	1,5	Stabilizers
Recycled material	65%	Post installation and Post use

## SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

## PRODUCT LIFE-CYCLE

### MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

#### Production process.

The production of the homogeneous resilient flooring is divided into the following stages:

- **Extrusion:** Raw materials is blended and extruded to obtain a malleable material.
- **Calendaring:** Rolls are then calendered to get the desired shape.
- **Pressing:** Rolls are cut at the desired characteristics.
- **Packaging:** The final product is placed into cardboard cases with discs and plastic hangers positioned at the ends. The cardboard cases are then wrapped in plastic film.

### TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

#### Delivery

The average distribution distance between the factory and the installation site is 579 km. It has been calculated considering the average distance

between European countries where Tarkett is selling the iQ Loop products and the factory plant in Ronneby (Sweden). The distribution is made by truck.

#### Installation

The product is glued on the subfloor. then the different parts of the flooring are welded together.

#### Waste

During the installation approximately 10% of the flooring is lost as off-cuts. Thanks to the Restart program, Tarkett offers to all its customer flooring installers a free take-back system for installation offcuts including equipment, logistics and recycling. This analysis therefore considers a recycling scenario of the offcuts[1]

#### Packaging

50 % of the packaging materials goes to incineration and 50 % goes to landfill.

### PRODUCT USE AND MAINTENANCE (B1-B7)

#### Reference Service Life (RSL)

For this product. the stated RSL is 1 year. It should be noted, however, that the service life of a Homogeneous polyvinylchloride floor covering may vary depending on the amount and nature of floor traffic and the type and frequency of maintenance. The manufacturer has provided this service life based on his experience of flooring manufacture and supply. This RSL is applicable if the product use complies with that defined by ISO 14041 and ISO10874 in accordance with the product's classification. The service lifetime recommended by Tarkett is 30 years.

## Cleaning and maintenance

Cleaning regime is based on traditional cleaning protocol integrating manual and mechanical operations. Depending on premises considered, these consumptions may vary. The considered regime fits high traffic areas. The maintenance scenario is :

- Common maintenance: 4 times a week
- Periodic maintenance: twice a year

## Prevention of structural damage

To avoid excessive wear, usage should be restricted to the stated areas of application as outlined by the norm ISO 10874.

Air, soil, and water impacts during the use phase have not been studied.

## PRODUCT END OF LIFE (C1-C4, D)

### End of Life

3 distinct End-of-Life scenarios have been modelled for iQ LOOP. Tarkett recommend using the ReStart program at End-of-Use to recycle the product. However, to showcase the value of Tarkett's recycling activities, environmental impacts of two alternative scenarios have been calculated.

### Recycling /R

100% of the iQ Loop products can be recycled at its end of use stage, thanks to the ReStart® program, enabling Tarkett to collect installation losses and post-use flooring from construction sites to recycle it and/or re-use it as high-quality raw material back in Tarkett plants. Tarkett has developed a new technology that cleans, shreds, and recycles previously unusable post-consumer vinyl. Thus, iQ Loop is recycled back at the Ronneby plant and the transport between construction site and recycling facility is 579 km by truck.

The benefit is due to the recycling post-use flooring that allows avoiding the emissions of virgin materials. iQ Range can be 100% recycled at post-installation and post-consumer stage. Post-consumer recycling process currently has an efficiency of 90%. The impacts of the recycling process are taken into account in C3 module, and the secondary material enters A1 of the next product system with no impacts. Benefits from avoided raw material production and avoided transport are calculated in module D.

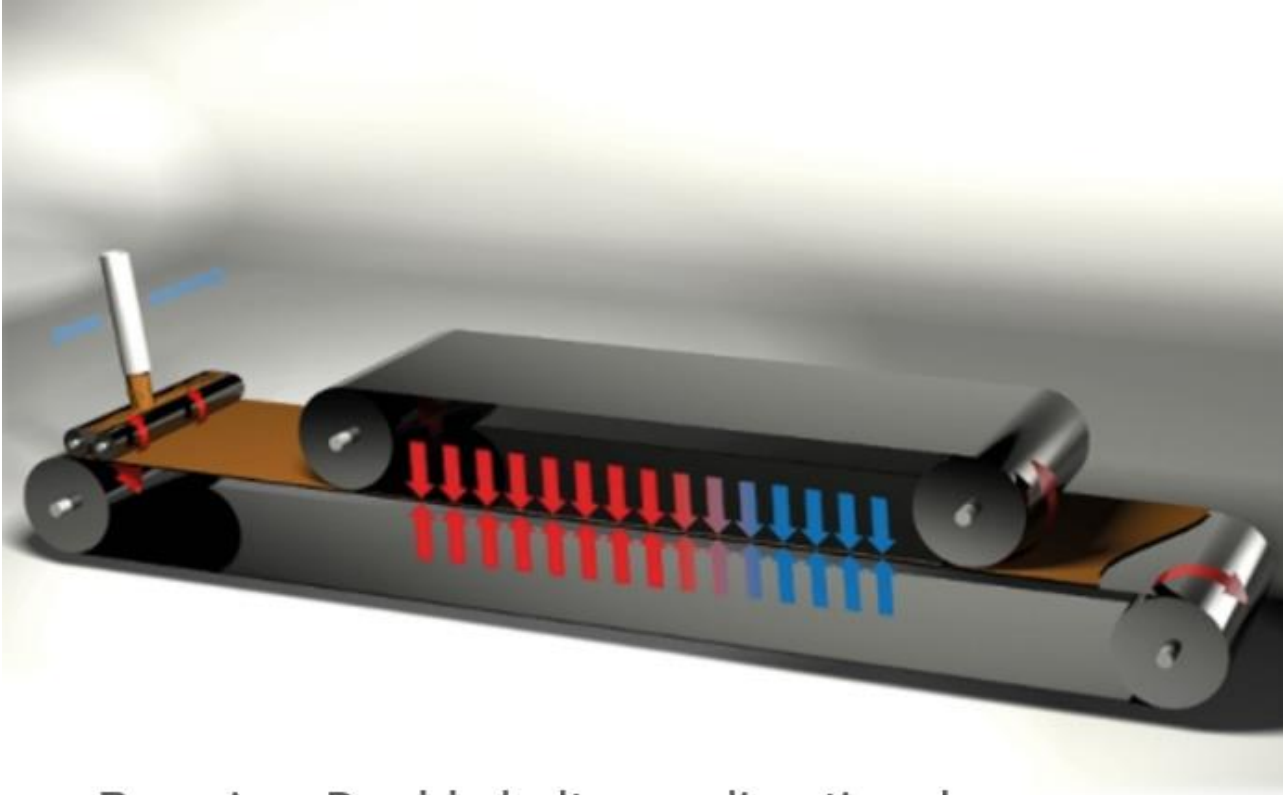
### Incineration with energy recovery /I

Incineration with energy recovery is a rising waste management method in many of the countries in which iQ Loop is sold. While Tarkett wishes to recycle 100% of sold iQ Loop, incineration with energy recovery is an alternative option if recycling is impossible. Environmental impacts as well as Benefits of incineration with energy recovery and from installation offcuts recycling are presented in the annex.

### Landfilling /L

Landfilling waste is still a prominent waste management scenario. This option is however not recommended by Tarkett. Environmental impacts of landfilling are presented in the annex. Benefits accounted for in this scenario exclusively come from installation offcuts recycling.

## MANUFACTURING PROCESS.



Pressing: Double belt, non directional  
iQ Loop

# LIFE-CYCLE ASSESSMENT

## LIFE-CYCLE ASSESSMENT INFORMATION

Period for data	2023
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## DECLARED AND FUNCTIONAL UNIT

Declared unit	1 square meter
Mass per declared unit	2.8 kg
Functional unit	Cover 1 m2 of interior flooring with homogeneous vinyl flooring type.
Reference service life	30

## BIOGENIC CARBON CONTENT

### Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0.029
Biogenic carbon content in packaging, kg C	0.016

## SYSTEM BOUNDARY

Product stage			Assembly stage		Use stage							End of life stage				Beyond the system boundaries		
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	D	D
x	x	x	x	x	MND	x	MND	MND	MND	MND	MND	x	x	x	x	x	x	x
Geography, by two-letter ISO country code or regions. The International EPD System only.																		
EU	EU	EU	EU	EU	-	EU	-	-	-	-	-	EU	EU	EU	EU	EU		
35%			10%															
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstr./demol.	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling

Modules not declared = MND. Modules not relevant = MNR.

## CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the EN 15804:2012+A2:2019 and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

All input and output flows have been considered, including raw materials as per the product composition provided by the manufacturer and



packaging of raw materials as well as the final product. Energy and water consumptions have also been considered at 100% according to the data provided.

#### Modules A1-A3

All input and output flows have been considered.

#### Modules A4-A5

All input and output flows have been considered.

#### Modules -B2

All input and output flows have been considered.

#### Modules B3-B7+B1

Floor coverings do not contribute to these modules according to the standard EN 16810.

#### Modules C1-C4

Modules C2 - C4 have been included. There are no input or output flows associated with module C1.

#### Module D

The Module D has been considered for this report.

## ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation.

In this study, as per EN 15804, allocation is conducted in the following order.

1. Allocation should be avoided.
2. Allocation should be based on physical properties (e.g., mass, volume) when the difference in revenue is small.
3. Allocation should be based on economic values.

The allocations in the Ecoinvent 3.8 datasets used in this study follow the Ecoinvent system model 'Allocation, cut-off, EN15804'.

## AVERAGES AND VARIABILITY

No average product was declared. The results presented are those of the declared product.

## ENVIRONMENTAL IMPACT DATA

The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks. Note: additional environmental impact data may be presented in annexes.

*Disclaimer: The results of modules A1-A3 should not be used without considering the results of module C.*

### CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.0

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total <sup>1)</sup>	kg CO <sub>2</sub> e	1.77E+00	2.69E-01	9.61E-01	MND	1.25E-01	MND	MND	MND	MND	MND	0.00E+00	2.95E-01	1.15E-01	5.95E-01	-2.17E+00
GWP – fossil	kg CO <sub>2</sub> e	1.87E+00	2.72E-01	8.95E-01	MND	1.19E-01	MND	MND	MND	MND	MND	0.00E+00	2.94E-01	1.10E-01	5.95E-01	-2.14E+00
GWP – biogenic	kg CO <sub>2</sub> e	-1.62E-01	0.00E+00	5.93E-02	MND	0.00E+00	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	1.03E-01	2.92E-01
GWP – LULUC	kg CO <sub>2</sub> e	5.92E-02	9.64E-05	6.46E-03	MND	5.74E-03	MND	MND	MND	MND	MND	0.00E+00	1.04E-04	4.57E-03	5.05E-06	-3.16E-01
Ozone depletion pot.	kg CFC-11e	6.17E-07	6.17E-08	1.38E-07	MND	9.30E-09	MND	MND	MND	MND	MND	0.00E+00	6.69E-08	1.57E-08	1.31E-09	-7.14E-07
Acidification potential	mol H <sup>+</sup> e	1.26E-02	1.11E-03	1.02E-02	MND	7.66E-04	MND	MND	MND	MND	MND	0.00E+00	1.20E-03	7.63E-04	1.37E-04	-1.19E-02
EP-freshwater <sup>2)</sup>	kg Pe	5.03E-05	0.00E+00	3.26E-05	MND	1.33E-05	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	1.18E-05	1.56E-07	-9.20E-06
EP-marine	kg Ne	3.28E-03	3.30E-04	1.08E-03	MND	3.08E-04	MND	MND	MND	MND	MND	0.00E+00	3.57E-04	2.75E-04	6.41E-05	-3.58E-03
EP-terrestrial	mol Ne	2.49E-02	3.64E-03	9.41E-03	MND	1.67E-03	MND	MND	MND	MND	MND	0.00E+00	3.95E-03	2.14E-03	6.59E-04	-2.24E-02
POCP (“smog”) <sup>3)</sup>	kg NMVOCe	7.69E-03	1.12E-03	3.40E-03	MND	3.90E-04	MND	MND	MND	MND	MND	0.00E+00	1.21E-03	3.43E-04	1.60E-04	-7.16E-03
ADP-minerals & metals <sup>4)</sup>	kg Sbe	2.80E-05	7.35E-06	1.38E-05	MND	1.25E-06	MND	MND	MND	MND	MND	0.00E+00	7.96E-06	1.01E-06	4.19E-08	3.09E-08
ADP-fossil resources	MJ	3.24E+01	4.10E+00	1.45E+01	MND	2.44E+00	MND	MND	MND	MND	MND	0.00E+00	4.44E+00	8.94E+00	1.11E-01	-3.03E+00
Water use <sup>5)</sup>	m <sup>3</sup> e depr.	2.13E+00	1.32E-02	8.32E-01	MND	1.40E-01	MND	MND	MND	MND	MND	0.00E+00	1.43E-02	4.54E-01	2.36E-02	-2.51E+00

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO<sub>4</sub>e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

## USE OF NATURAL RESOURCES

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy <sup>8)</sup>	MJ	1.82E+01	5.78E-02	2.65E+00	MND	3.63E-01	MND	MND	MND	MND	MND	0.00E+00	6.26E-02	3.39E+00	4.33E-03	-4.46E+00
Renew. PER as material	MJ	8.13E-01	0.00E+00	-5.10E-01	MND	0.00E+00	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	-3.02E-01	0.00E+00	-1.83E+00
Total use of renew. PER	MJ	1.91E+01	5.78E-02	2.14E+00	MND	3.63E-01	MND	MND	MND	MND	MND	0.00E+00	6.26E-02	3.09E+00	4.33E-03	-6.29E+00
Non-re. PER as energy	MJ	3.26E+01	4.10E+00	1.04E+01	MND	2.04E+00	MND	MND	MND	MND	MND	0.00E+00	4.44E+00	8.94E+00	1.11E-01	-5.06E+01
Non-re. PER as material	MJ	1.12E+01	0.00E+00	-8.71E-01	MND	0.00E+00	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	-1.03E+01	0.00E+00	-1.03E+01
Total use of non-re. PER	MJ	4.37E+01	4.10E+00	9.49E+00	MND	2.04E+00	MND	MND	MND	MND	MND	0.00E+00	4.44E+00	-1.35E+00	1.11E-01	-6.10E+01
Secondary materials	kg	1.85E+00	0.00E+00	1.94E-01	MND	5.36E-04	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	8.59E-04	9.85E-05	2.76E-01
Renew. secondary fuels	MJ	3.64E-03	0.00E+00	4.82E-04	MND	7.00E-06	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	5.30E-06	3.47E-06	3.55E-09
Non-ren. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	MND	0.00E+00	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	m <sup>3</sup>	6.21E-02	7.00E-04	2.31E-02	MND	3.61E-03	MND	MND	MND	MND	MND	0.00E+00	7.59E-04	7.78E-03	8.79E-04	-5.14E-02

8) PER = Primary energy resources

## END OF LIFE – WASTE

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	1.70E-01	4.51E-03	1.23E-01	MND	8.85E-03	MND	MND	MND	MND	MND	0.00E+00	4.89E-03	0.00E+00	0.00E+00	-9.68E-02
Non-hazardous waste	kg	2.41E+00	8.02E-02	2.96E+00	MND	3.12E-01	MND	MND	MND	MND	MND	0.00E+00	8.68E-02	0.00E+00	2.50E-01	-1.17E+00
Radioactive waste	kg	8.19E-05	2.77E-05	5.08E-05	MND	9.38E-06	MND	MND	MND	MND	MND	0.00E+00	3.00E-05	0.00E+00	0.00E+00	-3.47E-04

## END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	MND	0.00E+00	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	5.33E-02	0.00E+00	2.85E-01	MND	0.00E+00	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	2.52E+00	0.00E+00	0.00E+00
Materials for energy rec	kg	0.00E+00	0.00E+00	0.00E+00	MND	0.00E+00	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	0.00E+00	0.00E+00	MND	0.00E+00	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	1.76E+00	0.00E+00

## ADDITIONAL INDICATOR

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – GHG <sup>1</sup>	kg	1.87E+00	2.72E-01	8.95E-01	MND	1.19E-01	MND	MND	MND	MND	MND	0.00E+00	2.94E-01	1.10E-01	5.95E-01	-2.14E+00

<sup>1</sup>gwp-Ghg Is The Sum Of Gwp-Fossil And Gwp-Luluc Indicators

## SCENARIO DOCUMENTATION

### Manufacturing energy scenario documentation

Scenario parameter	Value
Electricity data source and quality	Données Tarkett, Ecoinvent 3.8
Ecoinvent model	Electricity, high voltage {SE}  electricity, high voltage, production mix   Cut-off, U – renewable  (Datasets on Swedish electricity mix production were adapted to better fit the electricity consumption which is only renewable energy.)
Electricity CO <sub>2e</sub> / kWh	0.0171
District heating data source and quality	Données Tarkett, Ecoinvent 3.8
Ecoinvent model	Heat, district or industrial, other than natural gas {SE}  heat and power co-generation, oil   Cut-off, U
District heating CO <sub>2e</sub> / kWh	0.167

### Transport scenario documentation (A4)

Scenario parameter	Value
Specific transport CO <sub>2e</sub> emissions, kg CO <sub>2e</sub> / tkm	0.193
Average transport distance, km	579
Capacity utilization (including empty return) %	36.3
Bulk density of transported products	1.40E+03
Volume capacity utilization factor	

### End of life scenario documentation

Scenario parameter	Value
Collection process – kg collected separately	
Collection process – kg collected with mixed waste	3.05 (product and glue)
Recovery process – kg for re-	
Recovery process – kg for	2.80
Recovery process – kg for	0.25
Disposal (total) – kg for final	
Scenario assumptions e.g., transportation	The product together with the glue is removed by hand and sent back to Ronneby for recycling. The average transport distance is considered the same as in module A4 (579km).

## BIBLIOGRAPHY

ISO 14025:2010 Environmental labels and declarations – Type III environmental declarations. Principles and procedures.

ISO 14040:2006 Environmental management. Life cycle assessment. Principles and frameworks.

ISO 14044:2006 Environmental management. Life cycle assessment. Requirements and guidelines.

Ecoinvent database v3.8 (2021) and One Click LCA database.

EN 15804:2012+A2:2019 Sustainability in construction works – Environmental product declarations – Core rules for the product category of construction products.

ISO 21930:2017 - Sustainability in buildings and civil engineering works — Core rules for environmental product declarations of construction products and services.

NF EN16810:2017 - Resilient, textile and laminate floor coverings Environmental product declarations — Product category rules.

## ABOUT THE MANUFACTURER

With an international coverage and a wide range of products, Tarkett has over 130 years of experience in providing integrated solutions for floorings to professionals and end users.

Many of the most important architectural firms in the world and building professionals have chosen.

Tarkett for the value of its products and for its consultation and service abilities. Therefore, Tarkett floorings and sport surfaces are present in

several prestigious architectural reference points. Tarkett offers integrated solutions for floorings able to meet the needs of customers. Our wide range of designs, colours and models provide, an infinite series of possibilities, contributing to create a positive environment and a better quality of life for people. Tarkett operates with the utmost respect for the environment towards the realization of eco-friendly products.

Tarkett’s commitment to the environment is woven throughout its business. Cradle-to-Cradle principles are, in fact, the basis of the design and production of every solution. Particularly, the lifecycle analysis is used to continuously improve the production process, and so, the products until their use stage, disposal, and recycling. The commitment to the environment is also proven by the accession to the Circular Economy 100 program. where Tarkett group, with a network of companies, is working to develop a circular economy model based on the reuse of materials and preservation of natural resources. The development of products that can be reused within internal production cycles, or external ones in case of other individuals, has been an integral part of the business strategy aimed at sustainability for many years. The WCM (World Class Manufacturing) management system has been developed in 2009, and it includes the environmental pillar aimed to the elimination of losses and to the growth of process efficiency.

<b>Manufacturer</b>	TARKETT
<b>EPD author</b>	Juliette Pouansi
<b>EPD verifier</b>	Anni Oviir, Rangi Maja OÜ.
<b>EPD program operator</b>	The International EPD System
<b>Background data</b>	This EPD is based on Ecoinvent 3.8 (Allocation, cut-off, EN15804) and One Click LCA databases.
<b>LCA software</b>	The LCA and EPD have been created using One Click LCA Pre-Verified EPD Generator for Sol à base de plastique

## VERIFICATION STATEMENT

### VERIFICATION PROCESS FOR THIS EPD

This EPD has been verified in accordance with ISO 14025 by an independent, third-party verifier by reviewing results, documents, and compliancy with EN 15804, ISO 14025 and ISO 14040/14044, following the process and checklists of the program operator for:

- This Environmental Product Declaration
- The Life-Cycle Assessment used in this EPD.
- The background report (project report) for this EPD

Why does verification transparency matter? [Read more online.](#)

### VERIFICATION OVERVIEW

Following independent third party has verified this specific EPD:

EPD verification information	Answer
Independent EPD verifier	Yes
EPD verification started on	17-05-2024
EPD verification completed on	09-07-2024
Supply-chain specific data %	35%
Approver of the EPD verifier	The International EPD System

Author & tool verification	Answer
EPD author	Juliette Pouansi
EPD Generator module	Sol à base de plastique
Independent software verifier	One Click LCA
Software verification date	17 January 2021

### THIRD-PARTY VERIFICATION STATEMENT

I hereby confirm that, following detailed examination, I have not established any relevant deviations by the studied Environmental Product Declaration (EPD), its LCA and project report, in terms of

- the data collected and used in the LCA calculations,
- the way the LCA-based calculations have been carried out,
- the presentation of environmental data in the EPD, and
- other additional environmental information, as present

with respect to the procedural and methodological requirements in ISO 14025:2010 and EN 15804:2012+A2:2019.

I confirm that the company-specific data has been examined as regards plausibility and consistency; the declaration owner is responsible for its factual integrity and legal compliance.

I confirm that I have sufficient knowledge and experience of construction products, this specific product category, the construction industry, relevant standards, and the geographical area of the EPD to carry out this verification.

I confirm my independence in my role as verifier; I have not been involved in the execution of the LCA or in the development of the declaration and have no conflicts of interest regarding this verification.

Signature



## VERIFICATION AND REGISTRATION (INTERNATIONAL EPD SYSTEM)

ISO standard ISO 21930 and CEN standard EN 15804 serves as the core Product Category Rules (PCR)	
PCR	PCR 2019:14 Construction products, version 1.3.3
PCR review was conducted by:	The Technical Committee of the International EPD® System. See <a href="http://www.environdec.com/TC">www.environdec.com/TC</a> for a list of members. Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat <a href="http://www.environdec.com/contact">www.environdec.com/contact</a> .
Independent third-party verification of the declaration and data, according to ISO 14025:2006:	Independent verification of this EPD and data, according to ISO 14025: <input type="checkbox"/> Internal verification <input checked="" type="checkbox"/> External verification
Third party verifier	Anni Oviir, Rangi Maja OÜ.
	Approved by: The International EPD® System Technical Committee, supported by the Secretariat.
Procedure for follow-up during EPD validity involves third party verifier.	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no



THE INTERNATIONAL EPD® SYSTEM

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[info@environdec.com](mailto:info@environdec.com)



## ANNEX 1 : ENVIRONMENTAL IMPACTS – INCINERATION SCENARIO.

Results per functional or declared unit in case of incineration - iQ LOOP						
Indicator	Unit	C1/I	C2/I	C3/I	C4/I	D/I
GWP-total	kg CO <sub>2</sub> eq.	0.00E+00	1.53E-02	0.00E+00	7.26E+00	-1.62E+00
GWP-Fossil	kg CO <sub>2</sub> eq.	0.00E+00	1.53E-02	0.00E+00	7.26E+00	-1.61E+00
GWP- biogenic	kg CO <sub>2</sub> eq.	0.00E+00	0.00E+00	0.00E+00	1.07E-01	8.21E-02
GWP- Luluc	kg CO <sub>2</sub> eq.	0.00E+00	5.41E-06	0.00E+00	6.18E-05	-9.10E-02
AP	mol H <sup>+</sup> eq.	0.00E+00	3.46E-09	0.00E+00	1.63E-08	-3.23E-07
ODP	kgCFC11 eq	0.00E+00	6.23E-05	0.00E+00	1.68E-03	-7.22E-03
EP-freshwater	kg P eq	0.00E+00	0.00E+00	0.00E+00	1.91E-06	-3.84E-05
EP-marine	kg N eq.	0.00E+00	1.85E-05	0.00E+00	7.85E-04	-1.55E-03
EP-terrestrial	mol N eq.	0.00E+00	2.04E-04	0.00E+00	8.07E-03	-1.23E-02
POCP	kg NMVOC eq.	0.00E+00	6.26E-05	0.00E+00	1.96E-03	-3.84E-03
ADP-minerals&metals*	kg Sb eq.	0.00E+00	4.12E-07	0.00E+00	5.13E-07	-8.62E-07
ADP-Fossil*	MJ	0.00E+00	2.30E-01	0.00E+00	1.37E+00	-1.74E+01
WDP	m <sup>3</sup>	0.00E+00	7.40E-04	0.00E+00	2.87E-01	-8.92E-01
Results per functional or declared unit in case of incineration - iQ LOOP						
Indicator	Unit	C1/I	C2/I	C3/I	C4/I	D/I
PERE	MJ	0.00E+00	3.25E-03	0.00E+00	5.33E-02	-2.52E+00
PERM	MJ	0.00E+00	0.00E+00	0.00E+00	-3.02E-01	-5.23E-01
PERT	MJ	0.00E+00	3.25E-03	0.00E+00	-2.49E-02	-3.04E+00
PENRE	MJ	0.00E+00	2.30E-01	0.00E+00	1.37E+00	-3.10E+01
PENRM	MJ.	0.00E+00	0.00E+00	0.00E+00	-1.03E+01	-2.95E+00
PENRT	MJ	0.00E+00	2.30E-01	0.00E+00	-8.92E+00	-3.39E+01
SM	kg	0.00E+00	0.00E+00	0.00E+00	1.21E-03	2.78E-01
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	4.25E-05	-5.00E-06
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m <sup>3</sup>	0.00E+00	3.93E-05	0.00E+00	1.08E-02	-2.02E-02
Results per functional or declared unit in case of incineration - iQ LOOP						
Indicator	Unit	C1/I	C2/I	C3/I	C4/I	D/I
Hazardous waste disposed	kg	0.00E+00	2.33E-04	0.00E+00	0.00E+00	-6.28E-02
Non-hazardous waste disposed	kg	0.00E+00	1.60E-02	0.00E+00	3.23E+00	-1.94E+00
Radioactive waste disposed	kg	0.00E+00	1.58E-06	0.00E+00	0.00E+00	-1.67E-04
Results per functional or declared unit in case of incineration - iQ LOOP						
Indicator	Unit	C1/I	C2/I	C3/I	C4/I	D/I
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	0.00E+00	0.00E+00	1.14E+01	0.00E+00

## ANNEX 2 : ENVIRONMENTAL IMPACTS – LANDFILL SCENARIO.

Results per functional or declared unit in case of landfilling - iQ LOOP						
Indicator	Unit	C1/L	C2/L	C3/L	C4/L	D/L
GWP-total	kg CO <sub>2</sub> eq.	0.00E+00	1.53E-02	0.00E+00	3.67E-01	-5.12E-01
GWP-Fossil	kg CO <sub>2</sub> eq.	0.00E+00	1.53E-02	0.00E+00	2.64E-01	-5.06E-01
GWP- biogenic	kg CO <sub>2</sub> eq.	0.00E+00	0.00E+00	0.00E+00	1.03E-01	8.36E-02
GWP- Luluc	kg CO <sub>2</sub> eq.	0.00E+00	5.41E-06	0.00E+00	3.14E-05	-9.02E-02
AP	mol H <sup>+</sup> eq.	0.00E+00	3.46E-09	0.00E+00	9.75E-09	-1.91E-07
ODP	kgCFC11 eq	0.00E+00	6.23E-05	0.00E+00	2.76E-04	-2.99E-03
EP-freshwater	kg P eq	0.00E+00	0.00E+00	0.00E+00	4.99E-07	1.21E-06
EP-marine	kg N eq.	0.00E+00	1.85E-05	0.00E+00	1.81E-04	-9.65E-04
EP-terrestrial	mol N eq.	0.00E+00	2.04E-04	0.00E+00	1.02E-03	-5.76E-03
POCP	kg NMVOC eq.	0.00E+00	6.26E-05	0.00E+00	3.48E-04	-1.86E-03
ADP-minerals&metals*	kg Sb eq.	0.00E+00	4.12E-07	0.00E+00	1.05E-07	1.03E-07
ADP-Fossil*	MJ	0.00E+00	2.30E-01	0.00E+00	7.42E-01	8.88E-01
WDP	m <sup>3</sup>	0.00E+00	7.40E-04	0.00E+00	4.66E-03	-6.98E-01
Results per functional or declared unit in case of landfilling - iQ LOOP						
Indicator	Unit	C1/L	C2/L	C3/L	C4/L	D/L
PERE	MJ	0.00E+00	3.25E-03	0.00E+00	1.54E-02	-1.14E+00
PERM	MJ	0.00E+00	0.00E+00	0.00E+00	-3.02E-01	-5.23E-01
PERT	MJ	0.00E+00	3.25E-03	0.00E+00	-2.87E-01	-1.67E+00
PENRE	MJ	0.00E+00	2.30E-01	0.00E+00	7.42E-01	-1.27E+01
PENRM	MJ.	0.00E+00	0.00E+00	0.00E+00	-1.03E+01	-2.95E+00
PENRT	MJ	0.00E+00	2.30E-01	0.00E+00	-9.55E+00	-1.57E+01
SM	kg	0.00E+00	0.00E+00	0.00E+00	2.67E-04	2.79E-01
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	1.04E-05	5.44E-07
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m <sup>3</sup>	0.00E+00	3.93E-05	0.00E+00	8.09E-04	-1.41E-02
Results per functional or declared unit in case of landfilling - iQ LOOP						
Indicator	Unit	C1/L	C2/L	C3/L	C4/L	D/L
Hazardous waste disposed	kg	0.00E+00	2.33E-04	0.00E+00	0.00E+00	-2.39E-02
Non-hazardous waste disposed	kg	0.00E+00	1.60E-02	0.00E+00	3.05E+00	-1.63E-01
Radioactive waste disposed	kg	0.00E+00	1.58E-06	0.00E+00	0.00E+00	-9.22E-05
Results per functional or declared unit in case of landfilling - iQ LOOP						
Indicator	Unit	C1/L	C2/L	C3/L	C4/L	D/L
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy. electricity	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy. thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

## ANNEX 3 : ENVIRONMENTAL IMPACTS – TRACI 2.1. / ISO 21930

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO <sub>2</sub> e	1,50E+00	2,69E-01	8,87E-01	MND	1,15E-01	MND	MND	MND	MND	MND	MND	2,91E-01	1,09E-01	5,95E-01	-3,27E-01
Ozone Depletion	kg CFC <sub>11</sub> e	5,90E-07	6,54E-08	1,27E-07	MND	8,51E-09	MND	MND	MND	MND	MND	MND	7,08E-08	1,45E-08	1,17E-09	-3,23E-08
Acidification	kg SO <sub>2</sub> e	3,48E-01	9,65E-04	3,88E-01	MND	3,08E-02	MND	MND	MND	MND	MND	MND	1,05E-03	3,12E-02	7,18E-03	-5,10E-02
Eutrophication	kg Ne	6,63E-04	1,36E-04	4,33E-04	MND	2,19E-04	MND	MND	MND	MND	MND	MND	1,47E-04	1,85E-04	3,08E-05	1,71E-05
POCP ("smog")	kg O <sub>3</sub> e	2,41E-02	2,09E-02	9,71E-03	MND	6,95E-04	MND	MND	MND	MND	MND	MND	2,26E-02	2,74E-04	1,53E-04	-4,15E-04
ADP-fossil	MJ	3,95E+00	5,86E-01	1,59E+00	MND	2,13E-01	MND	MND	MND	MND	MND	MND	6,35E-01	1,03E-01	1,37E-02	-6,01E-01