SENTINEL HOLDING
INSTITUT

SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

13491-10-1002

Essence 30 + 55

Product group: Design floors - Vinyl

Tarkett

Tarkett Holding GmbH
Rheinallee 13
67061 Ludwigshafen

Product qualities:

- QNG Qualitätssiegel Nachhaltiges Gebäude
- DGNB NEW CONSTRUCTION 2023.2
- DGNB NEW CONSTRUCTION 2023
- DGNB NEW CONSTRUCTION 2018

CERTIFIED SUSTAINABLE PRODUCT
SHI PRODUCT PASSPORT
SENTINEL HOLDING INSTITUT
www.sentinel-holding.eu

Köttner

Helmut Köttner
Scientific Director
Freiburg, 17 August 2026

Product:
Essence 30 + 55

SHI Product Passport no.:
13491-10-1002

Tarkett

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The SHI Database is the first and only database for construction products whose comprehensive processes and data accuracy are regularly verified by the independent auditing company SGS-TÜV Saar

SGS SGS TÜV SAAR

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Product:
Essence 30 + 55

SHI Product Passport no.:
13491-10-1002

Tarkett

QNG - Qualitätssiegel Nachhaltiges Gebäude

The Qualitätssiegel Nachhaltiges Gebäude (Quality Seal for Sustainable Buildings), developed by the German Federal Ministry for Housing, Urban Development and Building (BMWSB), defines requirements for the ecological, socio-cultural, and economic quality of buildings. The Sentinel Holding Institut evaluates construction products in accordance with QNG requirements for certification and awards the QNG ready label. Compliance with the QNG standard is a prerequisite for eligibility for the KfW funding programme. For certain product groups, the QNG currently has no specific requirements defined. Although classified as not assessment-relevant, these products remain suitable for QNG-certified projects.

Criteria	Pos. / product group	Considered substances	QNG assessment
3.1.3 Schadstoffvermeidung in Baumaterialien	2.2 Resilient floor coverings – including multilayer systems	VOC / Emissions / hazardous substances / polycyclic aromatic hydrocarbons (PAH) / SVHC / heavy metals	QNG ready
Verification: Herstellererklärung vom 26.02.2025			

Product:
Essence 30 + 55

SHI Product Passport no.:
13491-10-1002

Tarkett

DGNB New Construction 2023.2

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact			Not relevant for assessment

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Product:
Essence 30 + 55

SHI Product Passport no.:
13491-10-1002

Tarkett

DGNB New Construction 2023

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings. The 2023 version sets high standards for ecological, economic, socio-cultural, and functional aspects throughout the entire life cycle of a building.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 03.05.2024 (3rd edition)	7 Floor coverings (Resilient floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 3
Verification: Herstellererklärung vom 26.02.2025			

Criteria	Assessment
ENV1.1 Climate action and energy (*)	May positively contribute to the overall building score
Verification: ReStart Broschüre	

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 29.05.2025 (4th edition)	7 Floor coverings for indoor use (elastic floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 3
Verification: Herstellererklärung vom 26.02.2025			

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Product:
Essence 30 + 55

SHI Product Passport no.:
13491-10-1002

Tarkett

DGNB New Construction 2018

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact	7 Floor coverings (Resilient floor coverings)	VOC / SVOC / hazardous substances	Quality level 4
Verification: Herstellererklärung vom 26.02.2025			

SENTINEL HOLDING
INSTITUT

Product:
Essence 30 + 55

SHI Product Passport no.:
13491-10-1002

Tarkett

Product labels

In the construction industry, high-quality materials are crucial for a building's indoor air quality and sustainability. Product labels and certificates offer guidance to meet these requirements. However, the evaluation criteria of these labels vary, and it is important to carefully assess them to ensure products align with the specific needs of a construction project.

EPD
INTERNATIONAL EPD SYSTEM

The International EPD® System is a globally recognised programme for the creation and publication of Environmental Product Declarations (EPDs). It enables companies to transparently present the environmental impacts of their products, based on international standards such as ISO 14025 and EN 15804 for construction products. The system provides a standardised method for assessing the environmental performance of products throughout their entire life cycle and promotes sustainable business practices and ecological transparency across various industries.

GEPRÜFT NACHHALTIGES PRODUKT
QNG READY
SENTINEL HOLDING INSTITUT

Products bearing the Sentinel Holding Institute QNG-ready seal are suitable for projects aiming to achieve the "Qualitätssiegel Nachhaltiges Gebäude" (Quality Seal for Sustainable Buildings). QNG-ready products meet the requirements of QNG Appendix Document 3.1.3, “Avoidance of Harmful Substances in Building Materials.” The KfW loan program Climate-Friendly New Construction with QNG may allow for additional funding.

Product:
Essence 30 + 55

SHI Product Passport no.:
13491-10-1002

Tarkett

Legal notices

(*) These criteria apply to the construction project as a whole. While individual products can positively contribute to the overall building score through proper planning, the evaluation is always conducted at the building level. The information was provided entirely by the manufacturer.

Find our criteria here: https://www.sentinel-holding.eu/de/Themenwelten/Pr%C3%BCfkriterien%20f%C3%BCr%20Produkte

The SHI Database is the first and only database for construction products whose comprehensive processes and data accuracy are regularly verified by the independent auditing company SGS-TÜV Saar

SGS

SGS TÜV SAAR

Publisher

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Essence 30-55

Technische Daten

	Normen	Essence 30	Essence 55
Klassifizierung			
Produktart	EN ISO 10582	Heterogener PVC Bodenbelag	
Nutzungsklasse Wohnbereich	EN ISO 10874	23 starke Nutzung	
Nutzungsklasse Geschäftsbereich	EN ISO 10874	31 moderate Nutzung	33 starke Nutzung
Technische Merkmale			
Gesamtstärke	EN ISO 24346	2 mm	2,20 mm
Nutzschichtdicke	EN ISO 24340	0,30 mm	0,55 mm
Flächengewicht	EN ISO 23997	3400 g/m²	3450 g/m²
Bindemittelgehalt	EN ISO 10582	TYPE1	
Oberflächenvergütung		PU Matt	
Gefaste Kanten		Keine Fase	4 seitige Fugenfase Keine Fase
Verlegemethode		Verklebung	
CE Konformitätserklärung			
DOP (Declaration of Performance)	EN 14041	0132-0094-DoP-2023-10	0132-0095-DoP-2023-12
Leistungsmerkmale			
Dimensionsstabilität	EN ISO 23999	Bester gemessener Wert : ≤ 0,10 % Durchschnittlich gemessener Wert : ≤ 0,15 %	Durchschnittlich gemessener Wert : ≤ 0,15 %
Schüsselung nach Wärmeeinwirkung	EN ISO 23999	≤ 2 mm	
Brandverhalten (EN 13501)	EN 13501-1	Bfl-s1	
Resteindruck	EN ISO 24343-1	≤ 0,05 mm	
Möbelfüße	EN ISO 16581	Keine Beschädigung	
Stuhlrollenbeanspruchung (Typ W)	EN ISO 4918	Keine Beschädigung	
Trittschallverbesserung - ΔLw	EN ISO 717-2	3 dB	
Wärmedurchlasswiderstand	EN ISO 10456	0,02 m²•K/W	
Lichtechtheit	EN ISO 105-B02	≥ 6	
Chemikalieneinwirkung ISO 26987	EN ISO 26987	Sehr gute Beständigkeit (excellent)	
Rutschsicherheit (DIN 51130)	DIN 51130	R10	
Rutschsicherheit (EN 13893)	EN 13893	Klasse DS (μ ≥ 0,30)	
Schälwiderstand	EN ISO 24345	≥ 50N / 50mm	
Aufladungsspannung	EN 1815	Antistatisch (≤ 2 kV)	
Warmwasser-Fußbodenheizung		Ja (maximal 27°C)	
Nachhaltigkeit, Umwelt & Innenraumluftqualität			
Recyclingfähig		Ja - Verschnitt durch ReStart (ISO 14021)	
Anteil Recycling-Material	ISO 14021	55 %	41 %
CO2 Fußabdruck (Cradle-to-Gate, EPD Module A1-A3)		2,61 kg CO_2e /m²	3,90 kg CO_2e /m²
Phthalatfrei		Ja	
VOC Emissionswert	EN 16516	≤ 10 µg/m³ (nach 28 Tagen)	
Abmessungen und Designs			
Planke		Planke 200 x 1200 mm - 19 Planken=4,56 m²/Pack - 60 Pack/Palette	Planke 200 x 1200 mm - 17 Planken=4,08 m²/Pack - 60 Pack/Palette Planke 600 x 100 mm - 68 Planken=4,08 m²/Pack - 60 Pack/Palette
Fliese		Fliese 333 x 666 mm - 20 Fliesen=4,44 m²/Pack - 48 Pack/Palette	Fliese 333 x 666 mm - 18 Fliesen=4 m²/Pack - 48 Pack/Palette
Anzahl der verfügbaren Designs		10	14



Die Angaben entsprechen dem derzeitigen Stand der Technik (04/12/2024). Soweit einzelne Daten Beschaffenheitsmerkmale darstellen, können diese geändert werden, wenn die Produkteigenschaften verbessert werden bzw. gleich bleiben. Verlege-, Reinigungs- und Pflegempfehlungen von TARKETT sind zu beachten.

Tarkett

Tarkett Holding GmbH Postfach 220132 67022 Ludwigshafen

Sentinel Holding Institut GmbH
Bötzingerstraße 38
79111 Freiburg

26.02.2025

Herstellererklärung für QNG & DGNB – Tarkett Essence 30/55

Sehr geehrte Damen und Herren,

hiermit bestätigen wir für unseren Bodenbelag (Designboden/LVT) Essence 30 und Essence 55, dass dieser von Tarkett hergestellte Belag keine und damit einen Anteil von ≤ 0,1 % reproduktionstoxische Phthalate enthält. Es sind keine Blei-, Zinn- und Cadmiumstabilisatoren enthalten. Der genannte Bodenbelag enthält < 0,1 % Chlorparaffine (SCCPs + MCCPs + LCCPs) und ≤ 0,1 % SVHC.

Bei der Überprüfung der Einhaltung der REACH-Verordung, Artikel 33, berücksichtigt Tarkett die Aufnahme von besonders besorgniserregenden Stoffen (SVHC) in Annex XIV - Zulassungsliste und die in Annex XVII festgelegten Bedingungen oder Beschränkungen gemäß den Anforderungen von Artikel 67 (REACH-Kandidatenliste vom 27.06.2024).

Die TVOC-Emissionen entsprechen mit ≤ 10 µg/m³ nach 28 Tagen den Anforderungen des AgBB und Blauen Engel (RAL ZU 120), beide werden deutlich übererfüllt. Neben dieser Herstellererklärung erhalten Sie den Prüfbericht, welcher den Indoor Air Comfort Platinum ausweist.

Recycling & Recyclinganteile

Essence 30 / 55 ist Teil unseres Rücknahme- und Recyclingprogrammes ReStart. Gemäß diesem nehmen wir Verschnitt des genannten Bodens zurück und recyceln diesen. Essence 30 weist bereits einen Recyclinganteil von 55 %, Essence 55 einen Recyclinganteil von 41 % auf.

Nachhaltige Materialgewinnung

Tarkett ist seit 2010 Mitglied des United Nation Global Compact und hat in den letzten zehn Jahren jeweils das höchste Level „Advanced“ erreicht. Zudem wurde Tarkett 2022 und 2023 mit der Gold-Medaille, in 2024 mit der Platin-Medaille von EcoVadis innerhalb dessen ESG-Ratings ausgezeichnet. Mehr unter: https://www.tarkett-group.com/en/social-responsibility/

Für Rückfragen stehen wir Ihnen gerne zur Verfügung.

Mit freundlichen Grüßen
Tarkett Holding GmbH

Florian Ebner
General Manager D/A/CH

i.A. Swantje Kühn
Sustainability Manager D/A/CH

Tarkett Holding GmbH
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T. +49(0)621 68172 300 – F. +49(0)621 68172 4300 – info.de@tarkett.com
Commerzbank AG – BLZ 670 800 50 – Konto 833158300 – SWIFT/BIC DRESDEFF670 – IBAN DE83670800500833158300
Geschäftsführer: Edouard Robin de la Cotardiere – Florian Ebner – Marc Tenhagen
Amtsgericht Ludwigshafen/Rhein HRB 60424
www.tarkett.de

Environmental Product Declaration

In accordance with ISO14025:2006 and EN15804:2012+A2:2019/AC:2021 for:

Essence Glue Down 30

from

TARKETT

Programme:	The International EPD® System, www.environdec.com
Programme operator:	EPD International AB
EPD registration number:	EPD-IES-0015801
Publication date:	2024-07-29
Revision date	2024-09-05 (version 1)
Valid until:	2029-07-29

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



General information

Programme information

Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
E-mail:	info@environdec.com

Accountabilities for PCR, LCA and independent, third-party verification
Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): PCR 2019:14 version 1.3.3 and c-PCR-004 Resilient textile and laminate floor coverings (EN 16810)
PCR review was conducted by: The Technical Committee of the International EPD System. See www.environdec.com for a list of members. Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat www.environdec.com/contact.
Life Cycle Assessment (LCA)
LCA accountability: Juliette Pouansi & Perla Boumendil, TARKETT
Third-party verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☒ EPD verification by individual verifier Third-party verifier: *Etienne Lees-Perasso, TIDE* Approved by: The International EPD® System
OR
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☐ EPD verification by accredited certification body
OR
Independent third-party verification of the declaration and data, according to ISO 14025:2006 via: ☐ EPD verification by EPD Process Certification* *For EPD Process Certification, an accredited certification body certifies and reviews the management process and verifies EPDs published on a regular basis. For details about third-party verification procedure of the EPDs, see GPI.
Procedure for follow-up of data during EPD validity involves third party verifier: ☒ Yes ☐ No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, 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. For further information about comparability, see EN 15804 and ISO 14025.

This EPD is a specific EPD.

Differences versus previous version

2024-09-05 Version 1

Editorial change: Corrections of the table of results.

Company information

Owner of the EPD: Tarkett
Contact: Myriam TRYJEFACZKA. myriam.Tryjefaczka@tarkett.comTarkett La Défense, 1 Terrasse Bellini 92400 Paris
Description of the organisation:
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 particular needs of customers. Our wide range of designs, colors and models provides 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.

Product-related or management system-related certifications: : ISO 9001, ISO 14001, ISO 50001, WCM manufacturing site.
Name and location of production site(s): Clervaux (Luxembourg)

See the GPI and the PCR for other required company information.

Product information

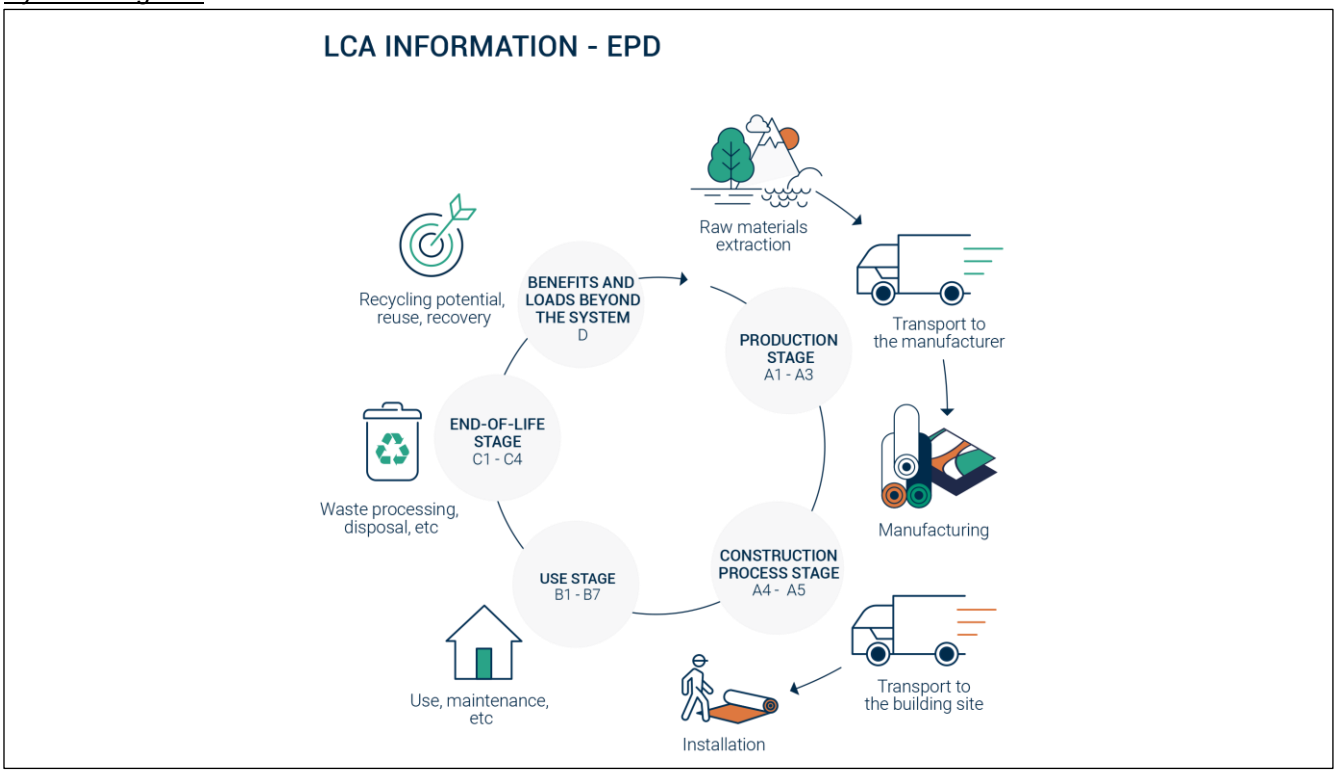
Product name: Essence Glue Down 30
Product identification: Modular heterogeneous floor coverings (EN 10582 and EN ISO 10874).
Product description: Essence Glue Down 30 have versatile designs and durability make it a great choice for commercial interiors with light traffic. Ideal for hotels, offices, shops and aged-care facilities, treated with our surface protection for easy maintenance and extra resistance to scuffs, scratches and stains. The service lifetime recommended by Tarkett is 25 years
UN CPC code: APE/NAF - 2223Z
Geographical scope: Modules A1-A5 as well as the use (module B) and end-of-life (module C) have been modelled to represent European technology and process coverage.

LCA information

Functional unit / declared unit: 1m^2 of floor covering with a reference service life (RSL) of 1 year for specified characteristics application and use areas according to ISO 11638 and EN ISO 10874.
Reference service life: 1 year.

Time representativeness: 2023
Database(s) and LCA software used: Ecoinvent 3.9, Simapro 9.5
Description of system boundaries: Cradle to grave and module D (A + B + C + D).

System diagram:



Cut-off criteria : The cut-off criteria used for this study follow the guidelines set out in the PCR which conform to the EN 15804-A2, as following:
- All inputs and outputs to a (unit) process are included in the calculation where the data is available.
- A maximum of 1% of the total mass per unit process may be omitted.
- A maximum of 1% of the total renewable and non-renewable energy for a unit process may be omitted.
- A maximum of 5% of the total energy usage and mass per module may be omitted.
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.

More information: The product is classified in accordance with EN ISO 10874, EN 685, ISO 11683 and in reference to the FCSS (Floor Covering Standard Symbols) to be installed in various areas of application, such as: healthcare, commercial, education. The area of use according to the ISO 10874 is moderate (31) for commercial classification and heavy (23) for domestic classification.

Product	Domestic Classification	Commercial Classification
Essence Glue Down 30	23 Heavy domestic use	31 Moderate commercial use

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

	Product stage			Construction process stage		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**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Modules declared	x	x	x	x	x	NA	x	NA	NA	NA	NA	NA	x	x	x	x	x
Geography	Europe	Europe	Europe	Europe	Europe		Europe						Europe	Europe	Europe	Europe	Europe
Specific data used	20%	50%	100%	100%	100%	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	0%	0%	0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%	0%	0%	European average for Tarkett		-	-	-	-	-	-	-	-	-	-	-	-

Content information

Product	Thickness (mm)	Weight (kg/m^2)	Recycled content
Essence Glue Down 30	2.0	3.30E+00	55%

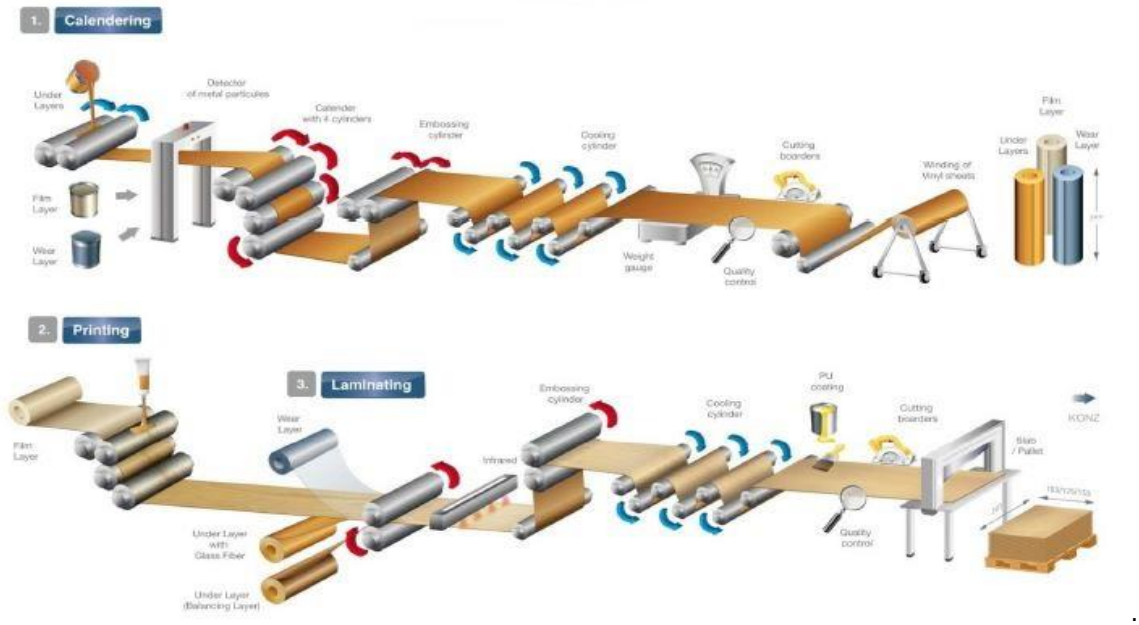
The components for the Essence Glue Down 30 group are detailed here:

Essence Glue Down 30			
Product components	**Weight, kg**	**Post-consumer material, weight-%**	**Biogenic material, weight-% and kg C/kg**
PVC Suspension	3.34E-01	0%	0%
Plasticizers	7.27E-02	0%	0%
Epoxidised soya bean oil	1.69E-02	0%	83%
Mineral fillers	7.01E-02	0%	0%
Stabilizer CaZn	8.29E-03	0%	0%
Pigments	4.72E-02	0%	0%
Surface Treatment	1.49E-02	0%	0%
Glass veil	3.50E-02	0%	0%
Titanium Dioxide	8.73E-03	0%	0%
Impact modifiers	1.50E-04	0%	0%
Calendered Underlay	2.77E+00	0%	0%
TOTAL	3.30E+00	0%	2%
Packaging materials	**Weight, kg**	**Weight-% (versus the product)**	**Weight biogenic carbon, kg C/kg**
Product Packaging Cardboard	6.65E-02	2%	-1.13
Product Packaging Paper Foil	5.76E-03	0.2%	-1.13
Product Packaging PP (Disc)	4.20E-06	0.0001%	0
Product Packaging PP (Plug)	4.20E-06	0.0001%	0
TOTAL	7.22E-02	2.2%	-0.135

Product manufacturing

Production process

The following figures show the production process of modular heterogeneous flooring :



Production waste

Waste type	Amount	Unit
Non-hazardous waste to external recycling	3.57E-01	kg/m²
Hazardous waste to external treatment	3.34E-03	kg/m²

Electricity GWP-GHG

Plant	Ecoinvent Module	% consumption	kgCO2eq/kWh
Clervaux	Electricity, high voltage {LU}| electricity, high voltage, residual mix | Cut-off, U	20,1%	1.41E-01
	Electricity, high voltage {LU}| electricity, high voltage, production mix | Cut-off, U - renewable	79,9%	1.07E-01

In the table below, here is the breakdown of all renewable source of energy used in Luxembourg :

	Ecoinvent Module	Quantity
Electricity, high voltage {LU}| electricity, high voltage, production mix | Cut-off, U - renewable	Electricity, high voltage {LU}| electricity production, hydro, pumped storage | Cut-off, U	61%
	Electricity, high voltage {LU}| electricity production, hydro, run-of-river | Cut-off, U	7%
	Electricity, high voltage {LU}| electricity production, wind, <1MW turbine, onshore | Cut-off, U	4%
	Electricity, high voltage {LU}| electricity production, wind, 1-3MW turbine, onshore | Cut-off, U	16%
	Electricity, high voltage {LU}| heat and power co-generation, wood chips, 6667 kW, state-of-the-art 2014 | Cut-off, U	11%

Health, safety and environmental aspects during production

Essence Glue Down 30 production site complies with the ISO 14001 Environmental Management System and the ISO 9001 Quality Management System.

Delivery and installation

Delivery

The average distribution distance between the factory and the installation site is 840 km. It has been calculated considering the average distance between European countries where Tarkett is selling the Essence Glue Down 30 products and the factory plant in Clervaux (Luxembourg). The distribution is made by truck.

Installation

The different parts of the flooring are cut to fit the surface to fit the surface to be covered and they are arranged together so that they can fit perfectly between them on the floor .The different parts of the flooring are glued on the subfloor then they are welded together.

Description	Amount	Unit
Acrylic adhesive	2.50E-01	kg/m²

Waste

During the installation approximately 10% of the flooring is lost as off-cuts. All flooring losses are sent to recycling. Thanks to the ReStart program. Tarkett offers to all of its customer flooring installers a free take-back system for installation off-cuts. including equipment. logistics and recycling. This analysis therefore considers a recycling scenario of the offcut.

Packaging

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

Use Stage

Reference Service Life (RSL)

For this product, the stated RSL is 1 year. It should be noted, however, that the service life of a modular heteregenous 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 on the basis of his experience of flooring manufacture and supply. This RSL is applicable as long as 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 25 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 cleaning / week**
- **Periodic maintenance: One cleaning/ month**
- **In depth maintenance : One cleaning/ year.**

Description	Amount	Unit
Electricity consumption	2.39E-01	kWh/year/m^2
Water consumption	5.18E+00	L/year/m^2
Detergent consumption	6.37E-02	L/year/m^2

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.

End of Life

Environmental impacts of landfilling are presented in module C. Tarkett also modeled an alternative scenario, incineration. The results can be found in page 15.

Landfilling /L
Landfilling waste is still a proheminent waste management scenario. This option is however not recommanded by Tarkett. Environmental impacts of landfilling are presented in module **C/L**.

Incineration with energy recovery /I
Incineration with energy recovery is a rising waste management method in many of the countries in wich Essence Gue Down 30 is sold. While Tarkett wishes to recycle 100% of products sold, incineration with energy recovery is an alternative option if recycling is impossible. Environmental impacts of incineration with energy recovery are presented in module **C/I** in page 15

Benefits and loads beyond system boundary

Landfilling /L
Benefits accounted in this scenario exclusively come from installation offcuts recycling and are presented in **D/L**

Incineration with energy recovery /I
Benefits from installation offcuts recycling and incineration energy recovery are calculated in **D/I on** page 15

Results of the environmental performance indicators

Results per functional or declared unit in case of landfilling– Essence Glue Down 30																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/L**	**C2/L**	**C3/L**	**C4/L**	**D/L**
GWP-total	kg CO_2 eq.	2,61E+00	5,44E-01	8,94E-01	0,00E+00	1,60E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,05E-02	0,00E+00	3,00E-01	-2,38E-01
GWP-fossil	kg CO_2 eq.	2,66E+00	5,44E-01	8,38E-01	0,00E+00	1,53E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,05E-02	0,00E+00	2,61E-01	-2,46E-01
GWP- biogenic	kg CO_2 eq.	-1,05E-01	1,74E-04	5,23E-02	0,00E+00	1,02E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,52E-06	0,00E+00	3,93E-02	1,01E-02
GWP- Luluc	kg CO_2 eq.	5,43E-02	2,67E-04	4,53E-03	0,00E+00	5,37E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,00E-05	0,00E+00	8,38E-06	-2,95E-03
ODP	kg CFC 11 eq.	4,76E-07	1,19E-08	3,27E-07	0,00E+00	4,15E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,46E-10	0,00E+00	1,07E-09	-9,40E-08
AP	mol H^+ eq.	1,10E-02	1,75E-03	3,89E-03	0,00E+00	8,91E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,69E-05	0,00E+00	2,43E-04	-1,36E-03
EP-freshwater	kg P eq	1,19E-03	3,82E-05	3,12E-04	0,00E+00	1,03E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,43E-06	0,00E+00	2,50E-06	-8,76E-05
EP-freshwater	kg PO_4^{3-} eq	3,64E-03	1,17E-04	9,57E-04	0,00E+00	3,17E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,40E-06	0,00E+00	7,66E-06	-2,69E-04
EP-marine	kg N eq.	3,18E-03	5,98E-04	1,01E-03	0,00E+00	3,23E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,30E-05	0,00E+00	1,42E-03	-3,85E-04
EP-terrestrial	mol N eq.	1,86E-02	6,32E-03	6,57E-03	0,00E+00	1,81E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,43E-04	0,00E+00	1,08E-03	-1,73E-03
POCP	kg NMVOC eq.	8,58E-03	2,62E-03	3,22E-03	0,00E+00	5,09E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,99E-05	0,00E+00	4,68E-04	-9,94E-04
ADP-minerals&metals*	kg Sb eq.	3,73E-05	1,80E-06	1,05E-05	0,00E+00	8,98E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,75E-08	0,00E+00	7,49E-08	-5,57E-06
ADP-fossil*	MJ	5,59E+01	7,72E+00	1,88E+01	0,00E+00	3,32E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,91E-01	0,00E+00	8,44E-01	-6,36E+00
WDP	m^3	2,13E+00	3,20E-02	7,94E-01	0,00E+00	3,94E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,20E-03	0,00E+00	3,80E-03	-3,81E-01
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.*

Environmental Information

Potential environmental impact in case of landfilling at End-of-use

Results per functional or declared unit in case of landfilling– Essence Glue Down 30																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/L**	**C2/L**	**C3/L**	**C4/L**	**D/L**
PERE	MJ	8,94E+00	1,20E-01	1,75E+00	0,00E+00	7,82E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,51E-03	0,00E+00	3,59E-02	-7,25E-01
PERM	MJ	1,09E+00	0,00E+00	1,20E-01	0,00E+00	9,55E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,90E-02
PERT	MJ	1,00E+01	1,20E-01	1,86E+00	0,00E+00	8,78E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,51E-03	0,00E+00	3,59E-02	-7,44E-01
PENRE	MJ	5,61E+01	7,72E+00	1,88E+01	0,00E+00	3,32E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,91E-01	0,00E+00	8,44E-01	-6,39E+00
PENRM	MJ.	7,23E+00	0,00E+00	1,81E+00	0,00E+00	5,36E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,54E+00
PENRT	MJ	6,33E+01	7,72E+00	2,06E+01	0,00E+00	3,86E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,91E-01	0,00E+00	8,44E-01	-7,93E+00
SM	kg	1,85E+00	0,00E+00	1,57E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,72E-01
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m^3	4,28E-02	1,10E-03	1,21E-02	0,00E+00	-6,85E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,13E-05	0,00E+00	1,03E-03	-5,81E-03
Acronyms	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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water															

Waste production and output flows in case of landfilling at End-of-use

Waste production

Results per functional or declared unit in case of landfilling– Essence Glue Down 30															
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/L**	**C2/L**	**C3/L**	**C4/L**	**D/L**
Hazardous waste disposed	kg	8,85E-02	7,37E-03	3,21E-02	0,00E+00	5,09E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,77E-04	0,00E+00	9,72E-04	-1,17E-02
Non-hazardous waste disposed	kg	1,11E+00	4,40E-01	4,67E-01	0,00E+00	6,00E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,65E-02	0,00E+00	3,64E+00	-1,32E-01
Radioactive waste disposed	kg	1,29E-04	2,52E-06	3,04E-05	0,00E+00	1,56E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,44E-08	0,00E+00	4,72E-07	-9,00E-06

Output flows

Results per functional or declared unit in case of landfilling– Essence Glue Down 30																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	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	3,58E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery	kg	4,28E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy	MJ	8,85E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Additional indicator

Results per functional or declared unit in case of landfilling– Essence Glue Down 30																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/L**	**C2/L**	**C3/L**	**C4/L**	**D/L**
GWP-GHG[1]	kg CO_2 eq.	2,71E+00	5,44E-01	8,42E-01	0,00E+00	1,58E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,05E-02	0,00E+00	2,61E-01	-2,49E-01

[1] GWP-GHG is the sum of GWP-Fossil and GWP-LULUC indicators

Additional environmental information – Potential impacts and flows in case of incineration.

Results per functional or declared unit in case of incineration - Essence Glue Down 30						
Indicator	**Unit**	**C1/I**	**C2/I**	**C3/I**	**C4/I**	**D/I**
GWP-total	kg CO_2 eq.	0,00E+00	6,84E-02	5,87E+00	2,63E-03	-1,04E+00
GWP-fossil	kg CO_2 eq.	0,00E+00	6,84E-02	5,82E+00	2,62E-03	-1,08E+00
GWP- biogenic	kg CO_2 eq.	0,00E+00	2,17E-05	4,79E-02	1,37E-06	4,07E-02
GWP- Luluc	kg CO_2 eq.	0,00E+00	3,34E-05	6,98E-04	7,97E-07	-2,23E-03
AP	mol H^+ eq.	0,00E+00	1,49E-09	1,66E-07	1,10E-09	-7,10E-08
ODP	kgCFC11 eq	0,00E+00	2,23E-04	5,43E-03	2,54E-05	-3,96E-03
EP-freshwater	kg P eq	0,00E+00	4,78E-06	3,15E-04	2,75E-07	-3,54E-04
EP-freshwater	kg PO4 eq	0,00E+00	1,47E-05	9,67E-04	8,43E-07	-1,09E-03
EP-marine	kg N eq.	0,00E+00	7,66E-05	1,65E-03	8,78E-06	-7,36E-04
EP-terrestrial	mol N eq.	0,00E+00	8,09E-04	1,51E-02	9,63E-05	-6,38E-03
POCP	kg NMVOC eq.	0,00E+00	3,33E-04	4,57E-03	2,80E-05	-2,73E-03
ADP-minerals&metals*	kg Sb eq.	0,00E+00	2,25E-07	1,70E-05	2,46E-08	-3,60E-06
ADP-fossil*	MJ	0,00E+00	9,69E-01	1,13E+01	7,48E-02	-1,78E+01
WDP	m^3	0,00E+00	4,00E-03	1,01E+01	3,35E-03	-2,21E-01

Results per functional or declared unit in case of incineration - Essence Glue Down 30						
Indicator	**Unit**	**C1/I**	**C2/I**	**C3/I**	**C4/I**	**D/I**
PERE	MJ	0,00E+00	1,50E-02	1,05E+00	6,05E-04	-1,48E+00
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-9,11E-03
PERT	MJ	0,00E+00	1,50E-02	1,05E+00	6,05E-04	-1,49E+00
PENRE	MJ	0,00E+00	9,69E-01	1,13E+01	7,48E-02	-1,78E+01
PENRM	MJ.	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-5,24E-01
PENRT	MJ	0,00E+00	9,69E-01	1,13E+01	7,48E-02	-1,84E+01
SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,15E-01
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m^3	0,00E+00	1,38E-04	3,09E-01	7,99E-05	-7,76E-03

Results per functional or declared unit in case of incineration - Essence Glue Down 30						
Indicator	**Unit**	**C1/I**	**C2/I**	**C3/I**	**C4/I**	**D/I**
Hazardous waste disposed	kg	0,00E+00	9,23E-04	1,95E+00	4,41E-05	-1,56E-02
Non-hazardous waste disposed	kg	0,00E+00	5,50E-02	5,11E-01	5,08E-01	-2,06E-01
Radioactive waste disposed	kg	0,00E+00	3,15E-07	2,38E-05	4,91E-07	-4,59E-05

Results per functional or declared unit in case of incineration - Essence Glue Down 30						
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	2,49E+00	0,00E+00	0,00E+00
Exported energy. electricity	MJ	0,00E+00	0,00E+00	8,43E+00	0,00E+00	0,00E+00
Exported energy. thermal	MJ	0,00E+00	0,00E+00	6,29E+00	0,00E+00	0,00E+00

References

General Programme Instructions of the International EPD® System. Version 4.0.
PCR 2019:14. and c-PCR-004 Resilient textile and laminate floor coverings (EN 16810)

EPD®

www.environdec.com

Environmental Product Declaration

In accordance with ISO14025:2006 and EN15804:2012+A2:2019/AC:2021 for:

Essence Glue Down 55

from

TARKETT

Programme:	The International EPD® System, www.environdec.com
Programme operator:	EPD International AB
EPD registration number:	EPD-IES-0015802
Publication date:	2024-07-29
Revision date	2024-09-05 (version 1)
Valid until:	2029-07-29

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



General information

Programme information

Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
E-mail:	info@environdec.com

Accountabilities for PCR, LCA and independent, third-party verification
Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): PCR 2019:14 version 1.3.3 and c-PCR-004 Resilient textile and laminate floor coverings (EN 16810)
PCR review was conducted by: The Technical Committee of the International EPD System. See www.environdec.com for a list of members. Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat www.environdec.com/contact.
Life Cycle Assessment (LCA)
LCA accountability: Juliette Pouansi & Perla Boumendil, TARKETT
Third-party verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☒ EPD verification by individual verifier Third-party verifier: *Etienne Lees-Perasso, TIDE* Approved by: The International EPD® System
OR
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☐ EPD verification by accredited certification body
OR
Independent third-party verification of the declaration and data, according to ISO 14025:2006 via: ☐ EPD verification by EPD Process Certification* *For EPD Process Certification, an accredited certification body certifies and reviews the management process and verifies EPDs published on a regular basis. For details about third-party verification procedure of the EPDs, see GPI.
Procedure for follow-up of data during EPD validity involves third party verifier: ☒ Yes ☐ No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, 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. For further information about comparability, see EN 15804 and ISO 14025.

This EPD is a specific EPD.

Differences versus previous version

2024-09-05 Version 1

Editorial change: Corrections of the table of results.

Company information

Owner of the EPD: Tarkett
Contact: Myriam TRYJEFACZKA. myriam.Tryjefaczka@tarkett.comTarkett La Défense, 1 Terrasse Bellini 92400 Paris
Description of the organisation:
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 particular needs of customers. Our wide range of designs, colors and models provides 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.

Product-related or management system-related certifications: : ISO 9001, ISO 14001, ISO 50001, WCM manufacturing site.
Name and location of production site(s): Clervaux (Luxembourg)

See the GPI and the PCR for other required company information.

Product information

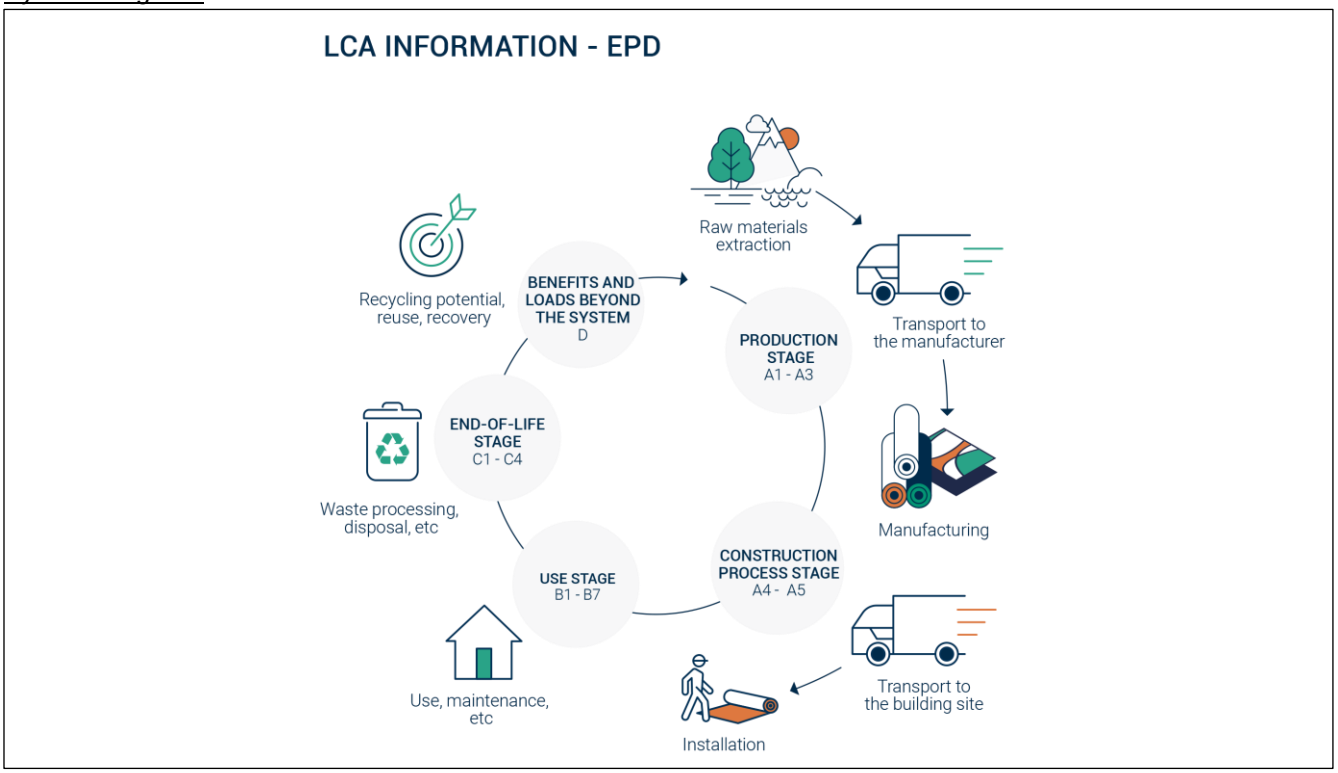
Product name: Essence Glue Down 55
Product identification: Modular heterogeneous floor coverings (EN 10582 and EN ISO 10874).
Product description: Essence Glue Down 55 have versatile designs and durability make it a great choice for commercial interiors with light traffic. Ideal for hotels, offices, shops and aged-care facilities, treated with our surface protection for easy maintenance and extra resistance to scuffs, scratches and stains. The service lifetime recommended by Tarkett is 25 years
UN CPC code: APE/NAF - 2223Z
Geographical scope: Modules A1-A5 as well as the use (module B) and end-of-life (module C) have been modelled to represent European technology and process coverage.

LCA information

Functional unit / declared unit: 1m^2 of floor covering with a reference service life (RSL) of 1 year for specified characteristics application and use areas according to ISO 11638 and EN ISO 10874.
Reference service life: 1 year.

Time representativeness: 2023
Database(s) and LCA software used: Ecoinvent 3.9, Simapro 9.5
Description of system boundaries: Cradle to grave and module D (A + B + C + D).

System diagram:



Cut-off criteria : The cut-off criteria used for this study follow the guidelines set out in the PCR which conform to the EN 15804-A2, as following:
- All inputs and outputs to a (unit) process are included in the calculation where the data is available.
- A maximum of 1% of the total mass per unit process may be omitted.
- A maximum of 1% of the total renewable and non-renewable energy for a unit process may be omitted.
- A maximum of 5% of the total energy usage and mass per module may be omitted.
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.

More information: The product is classified in accordance with EN ISO 10874, EN 685, ISO 11683 and in reference to the FCSS (Floor Covering Standard Symbols) to be installed in various areas of application, such as: healthcare, commercial, education. The area of use according to the ISO 10874 is heavy (33) for commercial classification, general (42) for industrial classification and heavy (23) for domestic classification.

Product	Domestic Classification	Commercial Classification	Industrial Classification
Essence Glue Down 55	23 Heavy domestic use	33 Heavy commercial use	42 General Industrial use

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

	Product stage			Construction process stage		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**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Modules declared	x	x	x	x	x	NA	x	NA	NA	NA	NA	NA	x	x	x	x	x
Geography	Europe	Europe	Europe	Europe	Europe		Europe						Europe	Europe	Europe	Europe	Europe
Specific data used	20%	50%	100%	100%	100%	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	0%	0%	0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%	0%	0%	European average for Tarkett		-	-	-	-	-	-	-	-	-	-	-	-

Content information

Product	Thickness (mm)	Weight (kg/m^2)	Recycled content
Essence Glue Down 55	2.5	3.45E+00	41%

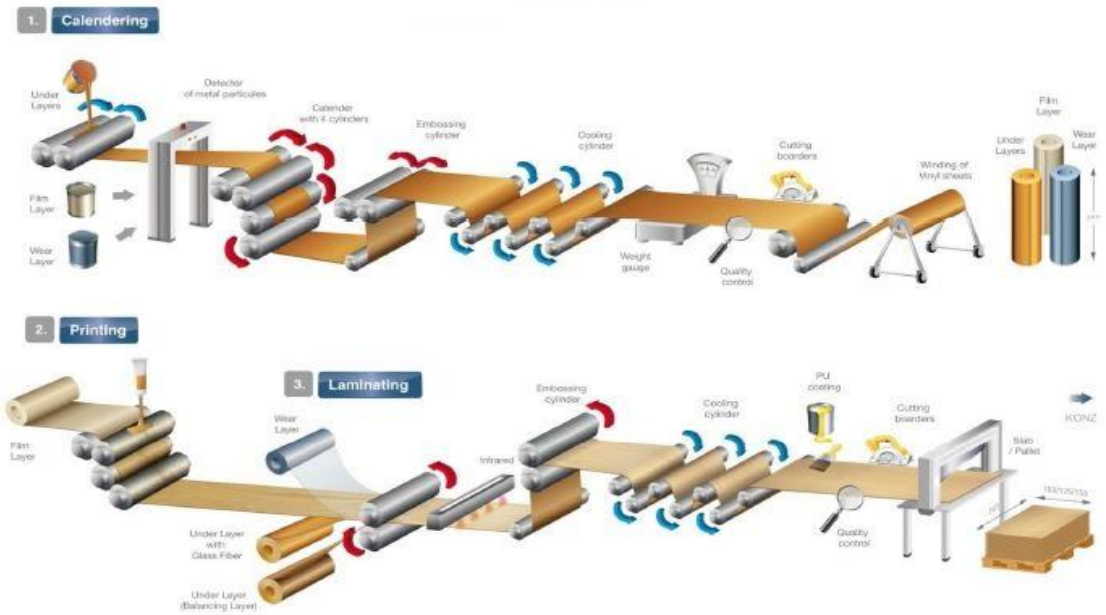
The components for the Essence Glue Down 55 group are detailed here:

Essence Glue Down 55			
Product components	**Weight, kg**	**Post-consumer material, weight-%**	**Biogenic material, weight-% and kg C/kg**
PVC Suspension	5.59E-01	0%	0%
Plasticizers	1.35E-01	0%	0%
Epoxidised soya bean oil	2.93E-02	0%	83%
Mineral fillers	7.01E-02	0%	0%
Stabilizer CaZn	1.40E-02	0%	0%
Pigments	3.50E-02	0%	0%
Surface Treatment	4.73E-02	0%	0%
Glass veil	1.48E-02	0%	0%
Titanium Dioxide	1.11E-02	0%	0%
Impact modifiers	2.615E+00	0%	0%
Calendered Underlay	3.54E+00	0%	2%
TOTAL	5.59E-01	0%	0%
Packaging materials	**Weight, kg**	**Weight-% (versus the product)**	**Weight biogenic carbon, kg C/kg**
Product Packaging Cardboard	6.65E-02	1.8%	-1.13
Product Packaging Paper Foil	5.76E-03	0.2%	-1.13
Product Packaging PP (Disc)	4.20E-06	0.0001%	0
Product Packaging PP (Plug)	4.20E-06	0.0001%	0
TOTAL	7.22E-02	2%	-0.135

Product manufacturing

Production process

The following figures show the production process of modular heterogeneous flooring :



.

Production waste

Waste type	Amount	Unit

Non-hazardous waste to external recycling	3.57E-01	kg/m²
Hazardous waste to external treatment	3.34E-03	kg/m²

Electricity GWP-GHG

Plant	Ecoinvent Module	% consumption	kgCO2eq/kWh
Clervaux	Electricity, high voltage {LU}| electricity, high voltage, residual mix | Cut-off, U	20,1%	1.41E-01
	Electricity, high voltage {LU}| electricity, high voltage, production mix | Cut-off, U - renewable	79,9%	1.07E-01

In the table below, here is the breakdown of all renewable source of energy used in Luxembourg :

	Ecoinvent Module	Quantity
Electricity, high voltage {LU}| electricity, high voltage, production mix | Cut-off, U - renewable	Electricity, high voltage {LU}| electricity production, hydro, pumped storage | Cut-off, U	61%
	Electricity, high voltage {LU}| electricity production, hydro, run-of-river | Cut-off, U	7%
	Electricity, high voltage {LU}| electricity production, wind, <1MW turbine, onshore | Cut-off, U	4%
	Electricity, high voltage {LU}| electricity production, wind, 1-3MW turbine, onshore | Cut-off, U	16%
	Electricity, high voltage {LU}| heat and power co-generation, wood chips, 6667 kW, state-of-the-art 2014 | Cut-off, U	11%

Health, safety and environmental aspects during production

Essence Glue Down 55 production site complies with the ISO 14001 Environmental Management System and the ISO 9001 Quality Management System.

Delivery and installation

Delivery

The average distribution distance between the factory and the installation site is 984 km. It has been calculated considering the average distance between European countries where Tarkett is selling the Essence Glue Down 55 products and the factory plant in Clervaux (Luxembourg). The distribution is made by truck.

Installation

The different parts of the flooring are cut to fit the surface to fit the surface to be covered and they are arranged together so that they can fit perfectly between them on the floor .The different parts of the flooring are glued on the subfloor then they are welded together.

Description	Amount	Unit
Acrylic adhesive	2.50E-01	kg/m²

Waste

During the installation approximately 10% of the flooring is lost as off-cuts. All flooring losses are sent to recycling. Thanks to the ReStart program. Tarkett offers to all of its customer flooring installers a free take-back system for installation off-cuts. including equipment. logistics and recycling. This analysis therefore considers a recycling scenario of the offcut.

Packaging

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

Use Stage

Reference Service Life (RSL)

For this product, the stated RSL is 1 year. It should be noted, however, that the service life of a modular heteregenous 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 on the basis of his experience of flooring manufacture and supply. This RSL is applicable as long as 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 25 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 cleaning / week**
- **Periodic maintenance: One cleaning/ month**
- **In depth maintenance : One cleaning/ year.**

Description	Amount	Unit
Electricity consumption	2.39E-01	kWh/year/m^2
Water consumption	5.18E+00	L/year/m^2
Detergent consumption	6.37E-02	L/year/m^2

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.

End of Life

Environmental impacts of landfilling are presented in module C. Tarkett also modeled an alternative scenario, incineration. The results can be found in page 15.

Landfilling /L
Landfilling waste is still a proheminent waste management scenario. This option is however not recommanded by Tarkett. Environmental impacts of landfilling are presented in module **C/L**.

Incineration with energy recovery /I
Incineration with energy recovery is a rising waste management method in many of the countries in wich Essence Gue Down 55 is sold. While Tarkett wishes to recycle 100% of products sold, incineration with energy recovery is an alternative option if recycling is impossible. Environmental impacts of incineration with energy recovery are presented in module **C/I** in page 15

Benefits and loads beyond system boundary

Landfilling /L
Benefits accounted in this scenario exclusively come from installation offcuts recycling and are presented in **D/L**

Incineration with energy recovery /I
Benefits from installation offcuts recycling and incineration energy recovery are calculated in **D/I on** page 15

Results of the environmental performance indicators

Results per functional or declared unit in case of landfilling– Essence Glue Down 55																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/L**	**C2/L**	**C3/L**	**C4/L**	**D/L**
GWP-total	kg CO_2 eq.	3,90E+00	6,66E-01	8,98E-01	0,00E+00	1,60E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,14E-02	0,00E+00	3,39E-01	-2,36E-01
GWP-fossil	kg CO_2 eq.	3,96E+00	6,66E-01	8,38E-01	0,00E+00	1,53E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,14E-02	0,00E+00	2,72E-01	-2,46E-01
GWP- biogenic	kg CO_2 eq.	-1,34E-01	2,13E-04	5,51E-02	0,00E+00	1,02E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,81E-06	0,00E+00	6,70E-02	1,29E-02
GWP- Luluc	kg CO_2 eq.	6,68E-02	3,27E-04	4,53E-03	0,00E+00	5,37E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,05E-05	0,00E+00	8,75E-06	-2,95E-03
ODP	kg CFC 11 eq.	1,08E-06	1,45E-08	3,27E-07	0,00E+00	4,15E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,66E-10	0,00E+00	1,12E-09	-9,40E-08
AP	mol H^+ eq.	1,78E-02	2,15E-03	3,89E-03	0,00E+00	8,91E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,98E-05	0,00E+00	2,53E-04	-1,36E-03
EP-freshwater	kg P eq	1,66E-03	4,68E-05	3,12E-04	0,00E+00	1,03E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,50E-06	0,00E+00	2,61E-06	-8,76E-05
EP-freshwater	kg PO_4^{3-} eq	5,10E-03	1,44E-04	9,57E-04	0,00E+00	3,17E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,60E-06	0,00E+00	8,00E-06	-2,69E-04
EP-marine	kg N eq.	5,14E-03	7,33E-04	1,02E-03	0,00E+00	3,23E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,40E-05	0,00E+00	1,49E-03	-3,85E-04
EP-terrestrial	mol N eq.	2,70E-02	7,73E-03	6,57E-03	0,00E+00	1,81E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,54E-04	0,00E+00	1,13E-03	-1,73E-03
POCP	kg NMVOC eq.	1,36E-02	3,21E-03	3,23E-03	0,00E+00	5,09E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,04E-04	0,00E+00	4,88E-04	-9,94E-04
ADP-minerals&metals*	kg Sb eq.	6,35E-05	2,20E-06	1,05E-05	0,00E+00	8,98E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,05E-08	0,00E+00	7,82E-08	-5,57E-06
ADP-fossil*	MJ	9,18E+01	9,45E+00	1,88E+01	0,00E+00	3,32E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,04E-01	0,00E+00	8,81E-01	-6,36E+00
WDP	m^3	4,42E+00	3,92E-02	7,94E-01	0,00E+00	3,94E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,25E-03	0,00E+00	3,97E-03	-3,81E-01
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.*

Environmental Information

Potential environmental impact in case of landfilling at End-of-use

Results per functional or declared unit in case of landfilling– Essence Glue Down 55																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/L**	**C2/L**	**C3/L**	**C4/L**	**D/L**
PERE	MJ	1,34E+01	1,47E-01	1,75E+00	0,00E+00	7,82E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,71E-03	0,00E+00	3,75E-02	-7,25E-01
PERM	MJ	1,18E+00	0,00E+00	1,20E-01	0,00E+00	9,55E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,90E-02
PERT	MJ	1,46E+01	1,47E-01	1,86E+00	0,00E+00	8,78E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,71E-03	0,00E+00	3,75E-02	-7,44E-01
PENRE	MJ	9,21E+01	9,45E+00	1,88E+01	0,00E+00	3,32E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,04E-01	0,00E+00	8,81E-01	-6,39E+00
PENRM	MJ.	1,74E+01	0,00E+00	1,81E+00	0,00E+00	5,36E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,54E+00
PENRT	MJ	1,09E+02	9,45E+00	2,06E+01	0,00E+00	3,86E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,04E-01	0,00E+00	8,81E-01	-7,93E+00
SM	kg	1,47E+00	0,00E+00	1,57E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,86E-01
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m^3	7,32E-02	1,35E-03	1,21E-02	0,00E+00	-6,85E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,31E-05	0,00E+00	1,07E-03	-5,81E-03
Acronyms	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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water															

Waste production and output flows in case of landfilling at End-of-use

Waste production

Results per functional or declared unit in case of landfilling– Essence Glue Down 55															
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/L**	**C2/L**	**C3/L**	**C4/L**	**D/L**
Hazardous waste disposed	kg	1,51E-01	9,03E-03	3,21E-02	0,00E+00	5,09E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,89E-04	0,00E+00	1,01E-03	-1,17E-02
Non-hazardous waste disposed	kg	1,72E+00	5,39E-01	4,67E-01	0,00E+00	6,00E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,72E-02	0,00E+00	3,80E+00	-1,32E-01
Radioactive waste disposed	kg	1,83E-04	3,08E-06	3,04E-05	0,00E+00	1,56E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,86E-08	0,00E+00	4,92E-07	-9,00E-06

Output flows

Results per functional or declared unit in case of landfilling– Essence Glue Down 55																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	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	3,74E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery	kg	7,32E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy	MJ	1,51E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Additional indicator

Results per functional or declared unit in case of landfilling– Essence Glue Down 55																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/L**	**C2/L**	**C3/L**	**C4/L**	**D/L**
GWP-GHG[1]	kg CO_2 eq.	4,03E+00	6,66E-01	8,42E-01	0,00E+00	1,58E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,14E-02	0,00E+00	2,72E-01	-2,49E-01

[1] GWP-GHG is the sum of GWP-Fossil and GWP-LULUC indicators

Additional environmental information – Potential impacts and flows in case of incineration.

Results per functional or declared unit in case of incineration - Essence Glue Down 55						
Indicator	**Unit**	**C1/I**	**C2/I**	**C3/I**	**C4/I**	**D/I**
GWP-total	kg CO_2 eq.	0,00E+00	7,14E-02	6,50E+00	2,23E-03	-1,72E+00
GWP-fossil	kg CO_2 eq.	0,00E+00	7,14E-02	6,42E+00	2,23E-03	-1,78E+00
GWP- biogenic	kg CO_2 eq.	0,00E+00	2,27E-05	7,68E-02	1,16E-06	6,95E-02
GWP- Luluc	kg CO_2 eq.	0,00E+00	3,49E-05	7,77E-04	6,76E-07	-3,61E-03
AP	mol H^+ eq.	0,00E+00	1,55E-09	1,69E-07	9,35E-10	-1,44E-07
ODP	kgCFC11 eq	0,00E+00	2,33E-04	5,67E-03	2,16E-05	-6,58E-03
EP-freshwater	kg P eq	0,00E+00	4,99E-06	3,29E-04	2,33E-07	-5,96E-04
EP-freshwater	kg PO4 eq	0,00E+00	1,53E-05	1,01E-03	7,16E-07	-1,83E-03
EP-marine	kg N eq.	0,00E+00	8,00E-05	1,72E-03	7,46E-06	-1,24E-03
EP-terrestrial	mol N eq.	0,00E+00	8,45E-04	1,57E-02	8,17E-05	-1,05E-02
POCP	kg NMVOC eq.	0,00E+00	3,48E-04	4,81E-03	2,37E-05	-4,50E-03
ADP-minerals&metals*	kg Sb eq.	0,00E+00	2,35E-07	1,60E-05	2,09E-08	-6,22E-06
ADP-fossil*	MJ	0,00E+00	1,01E+00	1,18E+01	6,35E-02	-2,98E+01
WDP	m^3	0,00E+00	4,18E-03	1,06E+01	2,85E-03	-4,40E-01

Results per functional or declared unit in case of incineration - Essence Glue Down 55						
Indicator	**Unit**	**C1/I**	**C2/I**	**C3/I**	**C4/I**	**D/I**
PERE	MJ	0,00E+00	1,57E-02	1,10E+00	5,13E-04	-2,53E+00
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,58E-02
PERT	MJ	0,00E+00	1,57E-02	1,10E+00	5,13E-04	-2,55E+00
PENRE	MJ	0,00E+00	1,01E+00	1,18E+01	6,35E-02	-2,98E+01
PENRM	MJ.	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,28E+00
PENRT	MJ	0,00E+00	1,01E+00	1,18E+01	6,35E-02	-3,11E+01
SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,10E-01
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m^3	0,00E+00	1,44E-04	3,23E-01	6,78E-05	-1,33E-02

Results per functional or declared unit in case of incineration - Essence Glue Down 55						
Indicator	**Unit**	**C1/I**	**C2/I**	**C3/I**	**C4/I**	**D/I**
Hazardous waste disposed	kg	0,00E+00	9,63E-04	2,04E+00	3,74E-05	-2,70E-02
Non-hazardous waste disposed	kg	0,00E+00	5,75E-02	5,43E-01	4,31E-01	-3,40E-01
Radioactive waste disposed	kg	0,00E+00	3,29E-07	2,27E-05	4,17E-07	-7,62E-05

Results per functional or declared unit in case of incineration - Essence Glue Down 55						
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	2,38E+00	0,00E+00	0,00E+00
Exported energy. electricity	MJ	0,00E+00	0,00E+00	1,67E+01	0,00E+00	0,00E+00
Exported energy. thermal	MJ	0,00E+00	0,00E+00	1,25E+01	0,00E+00	0,00E+00

References

General Program Instructions of the International EPD® System. Version 4.0.
PCR 2019:14. and c-PCR-004 Resilient textile and laminate floor coverings (EN 16810)

EPD®

www.environdec.com

Tarkett

Communication to customers in accordance with Article 33 of REACH Regulations

European Union Regulation EC1907/2006 concerning the Registration, Evaluation, Authorization and restriction of Chemicals

Dear customer,

Tarkett manufactures "articles" as defined by REACH, i.e. floor and wall coverings. Articles are not "substances" or "preparations" and accordingly, articles are not subject to registration or authorization requirements under REACH.

According to article 33 of REACH, Tarkett has obligations under REACH to inform downstream users of our products, if the content of certain substances listed in the Candidate list of Substances of Very High Concern (SVHC) for authorization exceeds a concentration of 0.1 % mass weight in the provided articles.

Reach regulation is updated on a regular basis and Tarkett raw materials portfolio is reviewed accordingly.

As of July 1st 2024, Tarkett can confirm that none of its resilient, textile, laminate, wooden floor coverings as well as wall coverings manufactured in its European Union plants contains any of the SVHC listed substances above 0,1% of product weight.

When reviewing compliance to article 33, Tarkett takes into consideration the inclusion of SVHC into the Annex XIV – Authorization list, and the conditions or restriction specified by the Annex XVII, according to the requirements of article 67.

Latest update of the candidate List (**27/06/2024**), authorization list and list of restrictions, can be consulted on the ECHA websites:

- https://echa.europa.eu/candidate-list-table
- https://echa.europa.eu/authorisation-list
- https://echa.europa.eu/recommendation-for-inclusion-in-the-authorisation-list
- https://echa.europa.eu/substances-restricted-under-reach

Recycling

As far as recycling of floorings is concerned, Tarkett has always been a major player in this field and has been striving to minimize the depletion of natural resources. In accordance with the European Parliament's Directive 2006/12/EC encouraging the reuse of materials, Tarkett intends to actively continue this policy, in respect of REACH regulation, when considering the procurement of recycled raw material. External sources of PVC recyclates are analyzed to eliminate the risk of introducing SVHC classified plasticizers in our formulations.

Specific product related information is provided in Declaration of performances (DOP) according to CE Marking EU regulation n°305/2011.

We believe that this clarifies Tarkett's position and we hope to have answered your questions.

Demosthene Sakkas
Tarkett EMEA Quality Director

Slavoljub Martinovic
Tarkett EMEA & LATAM Division President

Date : July 22 , 2024