SENTINEL HOLDING
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SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

13491-10-1003

Essence Rigid 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

SENTINEL HOLDING
INSTITUT

Product:
Essence Rigid 30 + 55

SHI Product Passport no.:
13491-10-1003

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

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Product:
Essence Rigid 30 + 55

SHI Product Passport no.:
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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			

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Product:
Essence Rigid 30 + 55

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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 Rigid 30 + 55

SHI Product Passport no.:
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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			

SENTINEL HOLDING
INSTITUT

Product:
Essence Rigid 30 + 55

SHI Product Passport no.:
13491-10-1003

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 Rigid 30 + 55

SHI Product Passport no.:
13491-10-1003

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 Rigid 30 + 55

SHI Product Passport no.:
13491-10-1003

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 Rigid 30-55

Technische Daten

	Normen	Essence Rigid 30	Essence Rigid 55
Klassifizierung			
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	5 mm	
Nutzschichtdicke	EN ISO 24340	0,30 mm	0,55 mm
Flächengewicht	EN ISO 23997	8150 g/m²	8100 g/m²
Bindemittelgehalt	EN ISO 10582	Type I	
Oberflächenvergütung		PU Matt	
Gefaste Kanten		4 seitige Mikrofase	
Verlegemethode		Click	
CE Konformitätserklärung			
DOP (Declaration of Performance)	EN 14041	0197-0062-DoP-2023-02	
Leistungsmerkmale			
Dimensionsstabilität	EN ISO 23999	≤ 0,15 %	
Schüsselung nach Wärmeeinwirkung	EN ISO 23999	≤ 1 mm	
Brandverhalten (EN 13501)	EN 13501-1	Bfl-s1	
Resteindruck	EN ISO 24343-1	≤ 0,10 mm	
Möbelfüße	EN ISO 16581	Keine Beschädigung	
Trittschallverbesserung - ΔLw	EN ISO 717-2	19 dB	
Gehschall	NF S31-074	Klasse C (≤ 85 dB)	
Wärmedurchlasswiderstand	EN ISO 10456	0,05 m²•K/W	
Lichtechtheit	EN ISO 105-B02	≥ 6	
Chemikalieneinwirkung ISO 26987	EN ISO 26987	Gute Beständigkeit	
Rutschsicherheit (EN 13893)	EN 13893	Klasse DS (μ ≥ 0,30)	
Schälwiderstand	EN ISO 24345	≥ 50N/50mm	
Warmwasser-Fußbodenheizung		Ja (maximal 27°C)	
Nachhaltigkeit, Umwelt & Innenraumluftqualität			
Recyclingfähig durch ReStart®		Ja - Verschnitt und gebrauchte Produkte (post use) durch ReStart (ISO 14021)	
Recycelter Inhalt	ISO 14021	30 %	
CO2 Fußabdruck (Cradle-to-Gate, EPD Module A1-A3)		8,62 kg CO_2e /m²	
CO2 Fußabdruck (EPD Module A-D)		5,04 kg CO_2e /m²	
Phthalatfrei		Ja	
VOC Emissionswert	EN 16516	≤ 10 µg/m³ (nach 28 Tagen)	
Emissionskennzeichnung		A+	
Abmessungen und Designs			
Planke		Planke 1200 x 200,5 mm - 9 Planken=2,17 m²/Pack - 48 Pack/Palette	
Fliese		Fliese 640 x 320mm - 11 Fliesen=2,25 m²/Pack - 44 Pack/Palette	
Anzahl der verfügbaren Designs		10	10

Die Angaben entsprechen dem derzeitigen Stand der Technik (07/02/2025). 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 Holding GmbH Postfach 220132 67022 Ludwigshafen

Sentinel Holding Institut GmbH
Bötzingerstraße 38
79111 Freiburg

26.02.2025

Herstellererklärung für QNG & DGNB – Tarkett Essence Rigid 30 / 55

Sehr geehrte Damen und Herren,
hiermit bestätigen wir für unseren Bodenbelag (Designboden/LVT) Essence Rigid 30 / 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 Rigid 30 / 55 ist Teil unseres Rücknahme- und Recyclingprogrammes ReStart. Gemäß diesem nehmen wir Verschnitt und Altboden der genannten Qualitäten zurück und recyceln diese. Essence Rigid 30 / 55 weist bereits einen Recyclinganteil von 30% 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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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 ISO 14025 and EN 15804:2012+A2:2019 for:

Elegance Rigid and Essence Rigid 30/55

from **TARKETT**

Programme:	The International EPD® System, www.environdec.com
Programme operator:	EPD International AB
EPD registration number:	S-P-05601
Publication date:	2023-05-24
Valid until:	2028-05-24

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

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product category rules (PCR): PCR 2019:14 version 1.11 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 lead by Claudia A Peña. A full list of members available on www.environdec.com. The review panel may be contacted via info@environdec.com.*
Independent third-party verification of the declaration and data, according to ISO 14025:2006: ☐ EPD process certification ☒ EPD verification
Third party verifier: Olivia Djiriguian from LCIE Bureau Veritas.
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 from different programmes may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804. For further information about comparability, see EN 15804 and ISO 14025.

This EPD is a specific EPD.

Company information

Owner of the EPD: Tarkett

Contact: Marcelo Martins Meira, marcelo.martinsmeira@tarkett.com, Tarkett 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): Jaslo, Poland

Product information

Product name: Elegance Rigid 55, Essence Rigid 30, Essence Rigid 55.

Product identification: Heterogeneous poly (vinyl chloride) floor coverings (EN 10582).

Product description: Elegance and Essence Rigid 30/55 are a modular heterogeneous compact resilient floor covering developed by Tarkett. The service lifetime recommended by Tarkett is 25 years.

Geography: European technology and process coverage.

UN CPC code: APE/NAF - 2223Z

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 10582 and EN ISO 10874.

Reference service life: 25 years

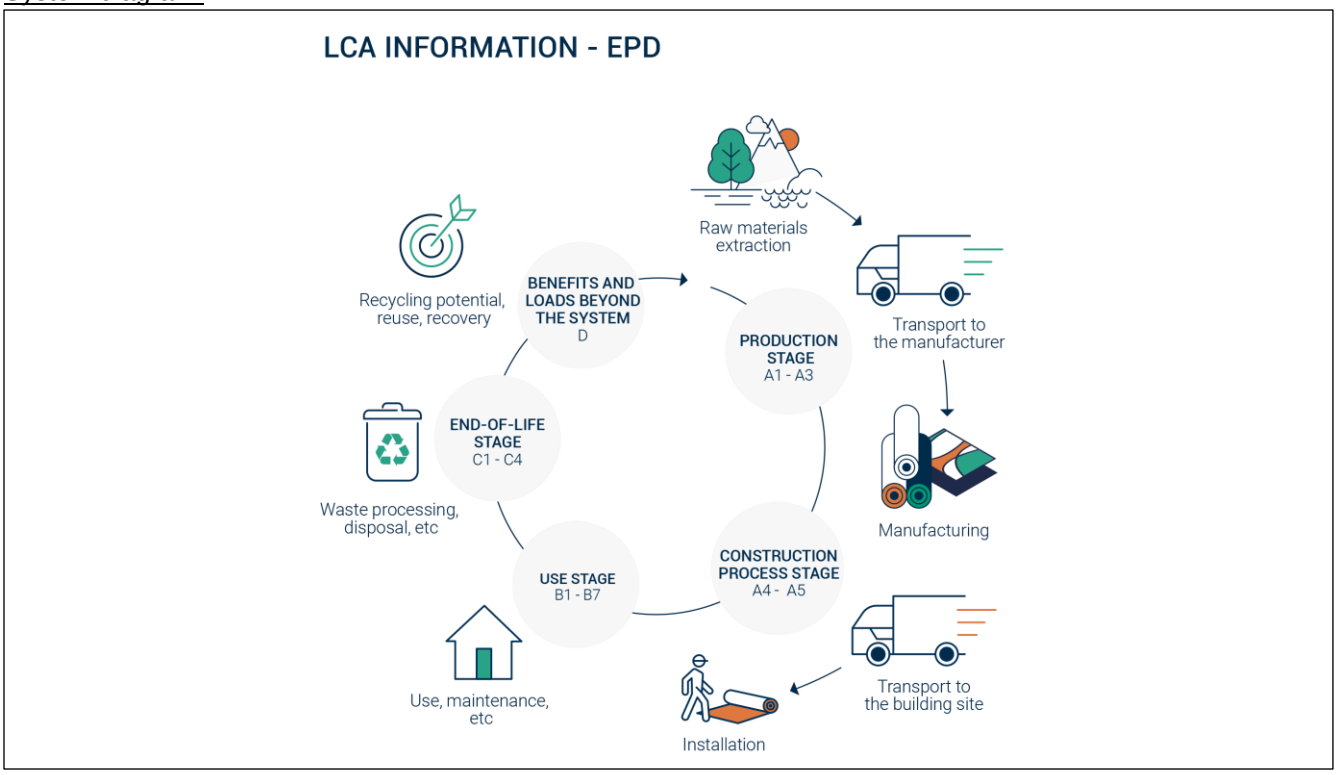
Time representativeness: 2022.

Database(s) and LCA software used: Ecoinvent3.8, Simapro 9.1

Description of system boundaries: Cradle to grave and module D (A + B + C + D)

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.

System diagram:



More information: 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 heavy (23) for domestic use, heavy (33) for commercial classification and heavy (42) for industrial classification.

Product	**Domestic Classification**	**Commercial Classification**	**Industrial Classification**
Elegance Rigid 30/55	23 Heavy domestic use	33 Heavy commercial use	42* Heavy Industrial
Essence Rigid 30/55	23 Heavy domestic use	33 Heavy commercial use	42* Heavy Industrial

* on demand (without acoustic integrated underlayer)

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

	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	X	X	X	X	X	X	X	X	X	X	X	X
Geography	European technology and process coverage																European
Specific data used	-	100%	100%	100%	100%	-	-	-	-	-	-	-	-	-	100% For recycling process		100% For recycling process
Variation – products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	-	-	-	European average for Tarkett		-	-	-	-	-	-	-	-	-	-	-	-

Content information

The components for Elegance Rigid and Essence Rigid 30/55 are detailed here:

Elegance Rigid and Essence Rigid 30/55			
Product components	**Weight, kg/m²**	**Post-consumer material, weight-%**	**Renewable material, weight-%**
PVC Suspension	2.59E+00	0%	0%
Plasticizers	1.60E-01	0%	0%
Epoxidised soya bean oil	3.00E-02	0%	83%
Mineral fillers	5.72E+00	0%	0%
Stabilizer CaZn	2.20E-01	0%	0%
Titanium dioxide	1.00E-02	0%	0%
Pigments	6.00E-02	0%	0%
Surface Treatment	2.00E-02	0%	0%
Impact modifiers	1.00E-02	0%	0%
Additives	3.00E-02	0%	0%
Foam	5.90E-02	0%	0%
TOTAL	8.8E+00	0%	0.26%
Packaging materials	**Weight, kg/m²**	**Weight-% (versus the product)**	
Product Packaging Cardboard	3.00E-02	0.3%	
TOTAL	3.00E-02	0.3%	

Product manufacturing

Production process

The production of the heterogenous resilient flooring is divided into the following stages:
Extrusion: continuous mixing and heating process where raw materials are fused and, optionally, shaped through a die, suitable for making shapes such as rods (welding rods), granules or thick sheets (Rigid LVT core layer).
Calendering: continuous shaping process of thermoplastic material which allows the making of thin sheets or films (thickness < 1 mm). The calender is fed through an extruder.
Pressing: semi-continuous process which allows the lamination of several layers priorly produced by extrusion and/or calendaring.
Profiling: semi-continuous process where a connection system is machined on the material edges.
Pad attaching: semi-continuous process where an acoustic backing is bonded on the back side of the product.
Packaging: semi-continuous process where the finished product is either wrapped around a cardboard core, packed in plastic film and protected with plastic side plates on the edges (rolls) OR stacked head-to-toe and packed into cardboard boxes (planks or tiles).

Production waste

Waste type	Amount	Unit
Non-hazardous waste to external treatment	1.00E-01	kg/m²
Non-hazardous waste-water to external treatment	2.00E-02	kg/m²

NB: Post manufacturing recycling concerns the recycling of the losses inside the plant production. Therefore, there is no end-of-life impact on losses (except the recycling preparation). Post-manufacturing recycled content is 20 - 30%.

Health, safety and environmental aspects during production

Elegance Rigid and Essence Rigid 30/55 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 2160 km. It has been calculated considering the average distance between European countries where Tarkett is selling the Elegance Rigid and Elegance Rigid 30/55 products and the factory plant in Jaslo (Poland). The distribution is made by truck.

Installation

The slabs of Elegance Rigid and Essence Rigid 30/55 are clickable and therefore require no auxiliaries for installation.

Waste

During the installation approximately 3% of the flooring is lost as off-cuts. All flooring losses are sent to recycling.

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 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 light commercial areas. The maintenance scenario is :

- **Common maintenance : 4 times a week**
- **Periodic maintenance : once a week**

Description	Amount	Unit
Electricity consumption	2.89E-01	kWh/year/m^2
Water consumption	7.06E+00	L/year/m^2
Detergent consumption	6.88E-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

3 distinct End-of-Life scenarios have been modeled for Elegance and Essence Rigid 30/55. 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.

1/ Recycling.
100% of the Elegance and Essence Rigid 30/55 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. Thus, Elegance and Essence Rigid 30/55 are recycled back at the Jaslo plant, and the transport between construction site and recycling facility is 1354 km by truck. Environmental impacts of recycling are presented in module **C/1**.

2/ Incineration with energy recovery
Incineration with energy recovery is a rising waste management method in many of the countries in wich Elegance and Essence Rigid 30/55 are sold. While Tarkett wishes to recycle 100% of sold Elegance Rigid 30/55. Incineration with energy recovery is an alternative option if recycling is impossible. Environmental impacts of incineration with energy recovery are presented in module **C/2**.

3/ Landfilling
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/3**.

Benefits and loads beyond system boundary

1/ Recycling.
The benefit is due to the recycling post-use flooring that allows avoiding the emissions of virgin materials. Elegance and Essence Rigid 30/55 can be 100% recycled at post-installation and post-consumer stage. Benefits from avoided raw material production and avoided transport are calculated in module **D/1**.

2/ Incineration with energy recovery
Benefits from installation offcuts recycling and incineration energy recovery are calculated in **D/2**.

3/ Landfilling
Benefits accounted in this scenario exclusively come from installation offcuts recycling and are presented in **D/3**

Results

Environmental Information

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

Results per functional unit in case of recyling – Elegance and Essence Rigid 30/55																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/1**	**C2/1**	**C3/1**	**C4/1**	**D/1**
GWP-total	kg CO_2 eq.	9,63E+00	3,15E+00	5,51E-01	0,00E+00	2,54E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,73E+00	0,00E+00	7,00E-02	-7,29E+00
GWP-fossil	kg CO_2 eq.	9,50E+00	3,15E+00	4,91E-01	0,00E+00	2,47E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,73E+00	0,00E+00	0,00E+00	-7,13E+00
GWP- biogenic	kg CO_2 eq.	-3,19E-02	1,27E-03	5,53E-02	0,00E+00	1,42E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,91E-04	0,00E+00	7,00E-02	-1,63E-02
GWP- Luluc	kg CO_2 eq.	1,57E-01	1,24E-03	4,81E-03	0,00E+00	5,73E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,79E-04	0,00E+00	0,00E+00	-1,44E-01
ODP	kg CFC 11 eq.	3,50E-06	7,31E-07	1,50E-07	0,00E+00	1,58E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,00E-07	0,00E+00	0,00E+00	-3,06E-06
AP	mol H^+ eq.	4,31E-02	1,27E-02	2,14E-03	0,00E+00	1,44E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,02E-03	0,00E+00	0,00E+00	-3,32E-02
EP-freshwater	kg P eq	2,93E-03	2,04E-04	1,14E-04	0,00E+00	2,00E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,11E-04	0,00E+00	0,00E+00	-2,37E-03
EP-freshwater	kg PO4 eq	8,99E-03	6,26E-04	3,49E-04	0,00E+00	6,15E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,42E-04	0,00E+00	0,00E+00	-7,26E-03
EP-marine	kg N eq.	8,89E-03	3,78E-03	5,62E-04	0,00E+00	4,06E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,12E-03	0,00E+00	0,00E+00	-6,80E-03
EP-terrestrial	mol N eq.	8,99E-02	4,13E-02	5,35E-03	0,00E+00	2,65E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,31E-02	0,00E+00	0,00E+00	-6,40E-02
POCP	kg NMVOC eq.	2,98E-02	1,27E-02	1,72E-03	0,00E+00	6,66E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,08E-03	0,00E+00	0,00E+00	-2,31E-02
ADP-minerals&metals*	kg Sb eq.	2,10E-04	1,10E-05	6,99E-06	0,00E+00	1,37E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,02E-06	0,00E+00	0,00E+00	-1,90E-04
ADP-fossil*	MJ	2,07E+02	4,78E+01	9,39E+00	0,00E+00	5,26E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,62E+01	0,00E+00	0,00E+00	-1,69E+02
WDP	m^3	1,07E+01	1,39E-01	3,33E-01	0,00E+00	1,35E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,58E-02	0,00E+00	0,00E+00	-9,62E+00
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															

Environmental Information

Resource use in case of recycling at End-of-use

Results per functional unit in case of recyling – Elegance and Essence Rigid 30/55																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/1**	**C2/1**	**C3/1**	**C4/1**	**D/1**
PERE	MJ	3,95E+01	6,75E-01	1,27E+00	0,00E+00	1,08E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,69E-01	0,00E+00	0,00E+00	-9,21E+00
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,90E-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
PERT	MJ	3,95E+01	6,75E-01	1,27E+00	0,00E+00	1,08E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,69E-01	0,00E+00	0,00E+00	-9,21E+00
PENRE	MJ	2,06E+02	4,78E+01	9,37E+00	0,00E+00	5,19E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,62E+01	0,00E+00	0,00E+00	-1,68E+02
PENRM	MJ.	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,56E-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
PENRT	MJ	2,06E+02	4,77E+01	9,37E+00	0,00E+00	5,18E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,62E+01	0,00E+00	0,00E+00	-1,68E+02
SM	kg	1,76E+00	0,00E+00	5,28E-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	-1,39E+00
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	1,29E-01	1,81E-03	4,23E-03	0,00E+00	5,38E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,90E-04	0,00E+00	0,00E+00	-1,09E-01
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 recycling at End-of-use

Waste production

Results per functional unit in case of recyling – Elegance and Essence Rigid 30/55															
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/1**	**C2/1**	**C3/1**	**C4/1**	**D/1**
Hazardous waste disposed	kg	3,60E-01	3,46E-02	1,39E-02	0,00E+00	7,60E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,89E-02	0,00E+00	0,00E+00	-2,72E-01
Non-hazardous waste disposed	kg	4,68E+00	2,74E+00	3,38E-01	0,00E+00	8,86E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,50E+00	0,00E+00	0,00E+00	-4,00E+00
Radioactive waste disposed	kg	4,51E-04	3,23E-04	3,52E-05	0,00E+00	3,04E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,77E-04	0,00E+00	0,00E+00	-3,88E-04

Output flows

Results per functional unit in case of recyling – Elegance and Essence Rigid 30/55																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1/1**	**C2/1**	**C3/1**	**C4/1**	**D/1**
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	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	7,92E+00	0,00E+00
Materials for energy recovery	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
Exported energy, electricity	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
Exported energy, thermal	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

Additional indicator

GWP-fossil	kg CO_2 eq.	9,66E+00	3,15E+00	4,95E-01	0,00E+00	2,53E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,73E+00	0,00E+00	0,00E+00	-7,27E+00

GWP-GHG is the sum of GWP-Fossil and GWP-LULUC indicators

Additional information – Potential impacts and flows in case of incineration

Results per functional or declared unit in case of incineration – Elegance and Essence Rigid 30/55						
Indicator	**Unit**	**C1/1**	**C2/1**	**C3/1**	**C4/1**	**D/1**
GWP-total	kg CO_2 eq.	0,00E+00	1,46E-01	6,89E+00	2,02E-02	-3,43E+00
GWP-fossil	kg CO_2 eq.	0,00E+00	1,46E-01	6,81E+00	2,02E-02	-3,41E+00
GWP- biogenic	kg CO_2 eq.	0,00E+00	5,84E-05	8,44E-02	1,36E-05	-7,80E-03
GWP- Luluc	kg CO_2 eq.	0,00E+00	5,74E-05	9,02E-04	5,64E-06	-6,55E-03
ODP	kg CFC 11 eq.	0,00E+00	3,38E-08	6,06E-07	8,33E-09	-4,97E-07
AP	mol H^+ eq.	0,00E+00	5,94E-04	1,40E-02	1,92E-04	-1,34E-02
EP-freshwater	kg P eq	0,00E+00	9,42E-06	8,40E-04	2,08E-06	-1,15E-03
EP-freshwater	kg PO_4^{3-} eq	0,00E+00	2,89E-05	2,58E-03	6,38E-06	-3,53E-03
EP-marine	kg N eq.	0,00E+00	1,79E-04	4,05E-03	6,64E-05	-2,12E-03
EP-terrestrial	mol N eq.	0,00E+00	1,95E-03	3,74E-02	7,28E-04	-2,13E-02
POCP	kg NMVOC eq.	0,00E+00	5,98E-04	1,04E-02	2,11E-04	-6,42E-03
ADP-minerals&metals*	kg Sb eq.	0,00E+00	5,09E-07	7,13E-05	1,85E-07	-9,01E-06
ADP-fossil*	MJ	0,00E+00	2,21E+00	2,90E+01	5,65E-01	-5,82E+01
WDP	m^3	0,00E+00	6,41E-03	2,70E+01	2,53E-02	-5,17E-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					

Results per functional or declared unit in case of incineration – Elegance and Essence Rigid 30/55						
Indicator	**Unit**	**C1/1**	**C2/1**	**C3/1**	**C4/1**	**D/1**
PERE	MJ	0,00E+00	3,12E-02	2,63E+00	4,57E-03	-4,21E+00
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	0,00E+00	3,12E-02	2,63E+00	4,57E-03	-4,21E+00
PENRE	MJ	0,00E+00	2,21E+00	2,89E+01	5,65E-01	-5,78E+01
PENRM	MJ.	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	0,00E+00	2,21E+00	2,89E+01	5,65E-01	-5,78E+01
SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,38E-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	8,36E-05	8,10E-01	5,98E-04	-2,02E-02
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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water					

Results per functional or declared unit in case of incineration – Elegance and Essence Rigid 30/55						
Indicator	**Unit**	**C1/1**	**C2/1**	**C3/1**	**C4/1**	**D/1**
Hazardous waste disposed	kg	0,00E+00	1,60E-03	5,04E+00	3,33E-04	-4,15E-02
Non-hazardous waste disposed	kg	0,00E+00	1,26E-01	1,15E+00	3,84E+00	-7,15E-01
Radioactive waste disposed	kg	0,00E+00	1,50E-05	1,41E-04	3,71E-06	-2,26E-04

Results per functional or declared unit in case of incineration – Elegance and Essence Rigid 30/55						
Indicator	**Unit**	**C1/1**	**C2/1**	**C3/1**	**C4/1**	**D/1**
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	3,08E+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

Results per functional or declared unit in case of incineration – Elegance and Essence Rigid 30/55						
Indicator	**Unit**	**C1/1**	**C2/1**	**C3/1**	**C4/1**	**D/1**
GWP-GHG[1]	kg CO_2 eq.	0,00E+00	1,46E-01	6,81E+00	2,02E-02	-3,42E+00

Additional information – Potential impacts and flows in case of landfilling

Results per functional or declared unit in case of landfilling – Elegance and Essence Rigid 30/55						
Indicator	**Unit**	**C1/1**	**C2/1**	**C3/1**	**C4/1**	**D/1**
GWP-total	kg CO_2 eq.	0,00E+00	1,90E-01	0,00E+00	7,88E-01	-2,12E-01
GWP-fossil	kg CO_2 eq.	0,00E+00	1,90E-01	0,00E+00	7,19E-01	-2,07E-01
GWP- biogenic	kg CO_2 eq.	0,00E+00	7,60E-05	0,00E+00	7,01E-02	-5,24E-04
GWP- Luluc	kg CO_2 eq.	0,00E+00	7,47E-05	0,00E+00	1,85E-05	-4,20E-03
ODP	kg CFC 11 eq.	0,00E+00	4,40E-08	0,00E+00	2,73E-08	-8,91E-08
AP	mol H^+ eq.	0,00E+00	7,72E-04	0,00E+00	6,53E-04	-9,67E-04
EP-freshwater	kg P eq	0,00E+00	1,22E-05	0,00E+00	5,91E-06	-6,89E-05
EP-freshwater	kg PO_4^{3-} eq	0,00E+00	3,76E-05	0,00E+00	1,81E-05	-2,11E-04
EP-marine	kg N eq.	0,00E+00	2,32E-04	0,00E+00	3,45E-03	-1,98E-04
EP-terrestrial	mol N eq.	0,00E+00	2,54E-03	0,00E+00	2,63E-03	-1,86E-03
POCP	kg NMVOC eq.	0,00E+00	7,78E-04	0,00E+00	9,05E-04	-6,73E-04
ADP-minerals&metals*	kg Sb eq.	0,00E+00	6,62E-07	0,00E+00	2,48E-07	-5,52E-06
ADP-fossil*	MJ	0,00E+00	2,88E+00	0,00E+00	1,97E+00	-4,91E+00
WDP	m^3	0,00E+00	8,33E-03	0,00E+00	9,20E-03	-2,80E-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					

Results per functional or declared unit in case of landfilling – Elegance and Essence Rigid 30/55						
Indicator	**Unit**	**C1/1**	**C2/1**	**C3/1**	**C4/1**	**D/1**
PERE	MJ	0,00E+00	4,05E-02	0,00E+00	8,56E-02	-2,68E-01
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	0,00E+00	4,05E-02	0,00E+00	8,56E-02	-2,68E-01
PENRE	MJ	0,00E+00	2,87E+00	0,00E+00	1,97E+00	-4,90E+00
PENRM	MJ.	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	0,00E+00	2,87E+00	0,00E+00	1,97E+00	-4,90E+00
SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,86E-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	1,09E-04	0,00E+00	2,38E-03	-3,16E-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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary					

Results per functional or declared unit in case of landfilling – Elegance and Essence Rigid 30/55						
Indicator	**Unit**	**C1/1**	**C2/1**	**C3/1**	**C4/1**	**D/1**
Hazardous waste disposed	kg	0,00E+00	2,08E-03	0,00E+00	2,27E-03	-7,92E-03
Non-hazardous waste disposed	kg	0,00E+00	1,64E-01	0,00E+00	8,82E+00	-1,16E-01
Radioactive waste disposed	kg	0,00E+00	1,94E-05	0,00E+00	1,27E-05	-1,13E-05

Results per functional or declared unit in case of landfilling – Elegance and Essence Rigid 30/55						
Indicator	**Unit**	**C1/1**	**C2/1**	**C3/1**	**C4/1**	**D/1**
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

Results per functional or declared unit in case of landfilling – Elegance and Essence Rigid 30/55						
Indicator	**Unit**	**C1/1**	**C2/1**	**C3/1**	**C4/1**	**D/1**
GWP-GHG[1]	kg CO_2 eq.	0,00E+00	1,90E-01	0,00E+00	7,19E-01	-2,12E-01

Information on biogenic carbon content for all groups

Results per functional or declared unit		
BIOGENIC CARBON CONTENT	**Unit**	**QUANTITY**
Biogenic carbon content in product	kg C	0.021
Biogenic carbon content in packaging	kg C	<0.012

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO_2.

References

General Programme Instructions of the International EPD® System. Version 3.01.
PCR 2019:14. Version 1.11 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