



# SHI-PRODUKTPASS

Produkte finden - Gebäude zertifizieren

SHI-Produktpass-Nr.:

**13491-10-1002**

## Essence 30 + 55

Warengruppe: Designboden zum Kleben



Tarkett Holding GmbH  
Rheinallee 13  
67061 Ludwigshafen



### Produktqualitäten:



*Köttner*

Helmut Köttner  
Wissenschaftlicher Leiter  
Freiburg, den 17.03.2025



# Inhalt

|                                      |   |
|--------------------------------------|---|
| Qualitätssiegel Nachhaltiges Gebäude | 1 |
| DGNB Neubau 2023                     | 2 |
| DGNB Neubau 2018                     | 3 |
| Produktsiegel                        | 4 |
| Rechtliche Hinweise                  | 5 |
| Technisches Datenblatt/Anhänge       | 6 |

Wir sind stolz darauf, dass die SHI-Datenbank, die erste und einzige Datenbank für Bauprodukte ist, die ihre umfassenden Prozesse sowie die Aktualität regelmäßig von dem unabhängigen Prüfunternehmen SGS-TÜV Saar überprüfen lässt.





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## Qualitätssiegel Nachhaltiges Gebäude

Das Qualitätssiegel Nachhaltiges Gebäude, entwickelt durch das Bundesministerium für Wohnen, Stadtentwicklung und Bauwesen (BMWSB), legt Anforderungen an die ökologische, soziokulturelle und ökonomische Qualität von Gebäuden fest. Das Sentinel Holding Institut prüft Bauprodukte gemäß den QNG-Anforderungen für eine Zertifizierung und vergibt das QNG-ready Siegel. Das Einhalten des QNG-Standards ist Voraussetzung für den KfW-Förderkredit. Für bestimmte Produktgruppen hat das QNG derzeit keine spezifischen Anforderungen definiert. Diese Produkte sind als nicht bewertungsrelevant eingestuft, können jedoch in QNG-Projekten genutzt werden.

| Kriterium                                          | Pos. / Bauproduktgruppe                                     | Betrachtete Stoffe                                                                                                            | QNG Freigabe |
|----------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------|
| 3.1.3<br>Schadstoffvermeidung in<br>Baumaterialien | 2.2 Elastische Bodenbeläge –<br>auch mehrschichtige Systeme | VOC / Emissionen / gefährliche<br>Stoffe / Polyzyklische<br>Aromatische<br>Kohlenwasserstoffe (PAK) /<br>SVHC / Schwermetalle | QNG-ready    |
| Nachweis: Herstellererklärung vom 26.02.2025       |                                                             |                                                                                                                               |              |
| Bewertungsdatum: 17.03.2025                        |                                                             |                                                                                                                               |              |



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## DGNB Neubau 2023

Das DGNB-System (Deutsche Gesellschaft für Nachhaltiges Bauen) bewertet die Nachhaltigkeit von Gebäuden verschiedener Art. Das System ist sowohl anwendbar für private und gewerbliche Großprojekte als auch für kleinere Wohngebäude. Die Version 2023 setzt hohe Standards für ökologische, ökonomische, soziokulturelle und funktionale Aspekte während des gesamten Lebenszyklus eines Gebäudes.

| Kriterium                                           | Pos. / Relevante Bauteile /<br>Bau-Materialien / Flächen | Betrachtete Stoffe / Aspekte       | Qualitätsstufe    |
|-----------------------------------------------------|----------------------------------------------------------|------------------------------------|-------------------|
| ENV 1.2 Risiken für die<br>lokale Umwelt            | 7 Bodenbeläge (Elastische<br>Bodenbeläge)                | VOC / SVOC / gefährliche<br>Stoffe | Qualitätsstufe: 3 |
| <b>Nachweis:</b> Herstellererklärung vom 26.02.2025 |                                                          |                                    |                   |
| <b>Bewertungsdatum:</b> 17.03.2025                  |                                                          |                                    |                   |

| Kriterium                          | Bewertung                                 |
|------------------------------------|-------------------------------------------|
| ENV 1.1 Klimaschutz und Energie    | Kann Gesamtbewertung positiv beeinflussen |
| <b>Nachweis:</b> ReStart Broschüre |                                           |
| <b>Bewertungsdatum:</b> 17.03.2025 |                                           |



Produkt:

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SHI Produktpass-Nr.:

**13491-10-1002**



## DGNB Neubau 2018

Das DGNB-System (Deutsche Gesellschaft für Nachhaltiges Bauen) bewertet die Nachhaltigkeit von Gebäuden verschiedener Art. Das System ist sowohl anwendbar für private und gewerbliche Großprojekte als auch für kleinere Wohngebäude.

| Kriterium                                           | Pos. / Relevante Bauteile /<br>Bau-Materialien / Flächen | Betrachtete Stoffe / Aspekte       | Qualitätsstufe    |
|-----------------------------------------------------|----------------------------------------------------------|------------------------------------|-------------------|
| ENV 1.2 Risiken für die<br>lokale Umwelt            | 7 Bodenbeläge (Elastische<br>Bodenbeläge)                | VOC / SVOC / gefährliche<br>Stoffe | Qualitätsstufe: 4 |
| <b>Nachweis:</b> Herstellererklärung vom 26.02.2025 |                                                          |                                    |                   |
| <b>Bewertungsdatum:</b> 17.03.2025                  |                                                          |                                    |                   |



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# Produktsiegel

In der Baubranche spielt die Auswahl qualitativ hochwertiger Materialien eine zentrale Rolle für die Gesundheit in Gebäuden und deren Nachhaltigkeit. Produktlabels und Zertifikate bieten Orientierung, um diesen Anforderungen gerecht zu werden. Allerdings besitzt jedes Zertifikat und Label eigene Prüfkriterien, die genau betrachtet werden sollten, um sicherzustellen, dass sie den spezifischen Bedürfnissen eines Bauvorhabens entsprechen.



Das International EPD® System ist ein global anerkanntes Programm zur Erstellung und Veröffentlichung von Umweltproduktdeklarationen (EPDs). Es ermöglicht Unternehmen, die Umweltauswirkungen ihrer Produkte transparent darzustellen, basierend auf internationalen Normen wie ISO 14025 und der EN 15804 für Bauprodukte. Das System bietet eine standardisierte Methode zur Bewertung der ökologischen Performance von Produkten über ihren gesamten Lebenszyklus und fördert nachhaltiges Wirtschaften und ökologische Transparenz in verschiedenen Branchen.



Produkte mit dem QNG-ready Siegel des Sentinel Holding Instituts eignen sich für Projekte, für welche das Qualitätssiegel Nachhaltiges Gebäude (QNG) angestrebt wird. QNG-ready Produkte erfüllen die Anforderungen des QNG Anhangdokument 3.1.3 "Schadstoffvermeidung in Baumaterialien". Das KfW-Kreditprogramm Klimafreundlichen Neubau mit QNG kann eine höhere Fördersumme ermöglichen.



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## Rechtliche Hinweise

(\*) Die Kriterien dieses Steckbriefs beziehen sich auf das gesamte Bauobjekt. Die Bewertung erfolgt auf der Ebene des Gebäudes. Im Rahmen einer sachgemäßen Planung und fachgerechten Installation können einzelne Produkte einen positiven Beitrag zum Gesamtergebnis der Bewertung leisten. Das Sentinel Holding Institut stützt sich einzig auf die Angaben des Herstellers.

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Alle Kriterien finden Sie unter:

<https://www.sentinel-haus.de/de/Sentinel-Haus/Qualit%C3%A4ten/Qualitaeten-Pruefkriterien>

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Wir sind stolz darauf, dass die SHI-Datenbank, die erste und einzige Datenbank für Bauprodukte ist, die ihre umfassenden Prozesse sowie die Aktualität regelmäßig von dem unabhängigen Prüfunternehmen SGS-TÜV Saar überprüfen lässt.



### Herausgeber

Sentinel Holding Institut GmbH  
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[www.sentinel-holding.eu](http://www.sentinel-holding.eu)

# 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<br>Keine Fase                                                                                                   |
| Verlegungsmethode                                 |                | Verklebung                                                                       |                                                                                                                                     |
| CE Konformitätserklärung                          |                |                                                                                  |                                                                                                                                     |
| DOP (Declaration of Performance)                  | EN 14041       | 0132-0094-DoP-2023-10                                                            | 0132-0095-DoP-2023-12                                                                                                               |
| Leistungsmerkmale                                 |                |                                                                                  |                                                                                                                                     |
| Dimensionsstabilität                              | EN ISO 23999   | Bestער gemessener Wert : ≤ 0,10 %<br>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)                                              |                                                                                                                                     |
| Rutsicherheit (DIN 51130)                         | DIN 51130      | R10                                                                              |                                                                                                                                     |
| Rutsicherheit (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 CO2e /m²                                                                 | 3,90 kg CO2e /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<br>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.

Sentinel Holding Institut GmbH  
Bötzingenstraße 38  
79111 Freiburg

26.02.2025

## Herstellereklärung 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  $\leq 0,1$  % reproduktionstoxische Phthalate enthält. Es sind keine Blei-, Zinn- und Cadmiumstabilisatoren enthalten. Der genannte Bodenbelag enthält  $< 0,1$  % Chlorparaffine (SCCPs + MCCPs + LCCPs) und  $\leq 0,1$  % SVHC.

Bei der Überprüfung der Einhaltung der REACH-Verordnung, 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  $\leq 10 \mu\text{g}/\text{m}^3$  nach 28 Tagen den Anforderungen des AgBB und Blauen Engel (RAL ZU 120), beide werden deutlich übererfüllt. Neben dieser Herstellereklärung 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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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](http://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, <a href="http://www.environdec.com">www.environdec.com</a> |
| 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](http://www.environdec.com)*



## General information

### Programme information

|                   |                                                                     |
|-------------------|---------------------------------------------------------------------|
| <b>Programme:</b> | The International EPD® System                                       |
| <b>Address:</b>   | EPD International AB<br>Box 210 60<br>SE-100 31 Stockholm<br>Sweden |
| <b>Website:</b>   | <a href="http://www.environdec.com">www.environdec.com</a>          |
| <b>E-mail:</b>    | <a href="mailto:info@environdec.com">info@environdec.com</a>        |

### 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](http://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](http://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.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): 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<sup>2</sup> 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.

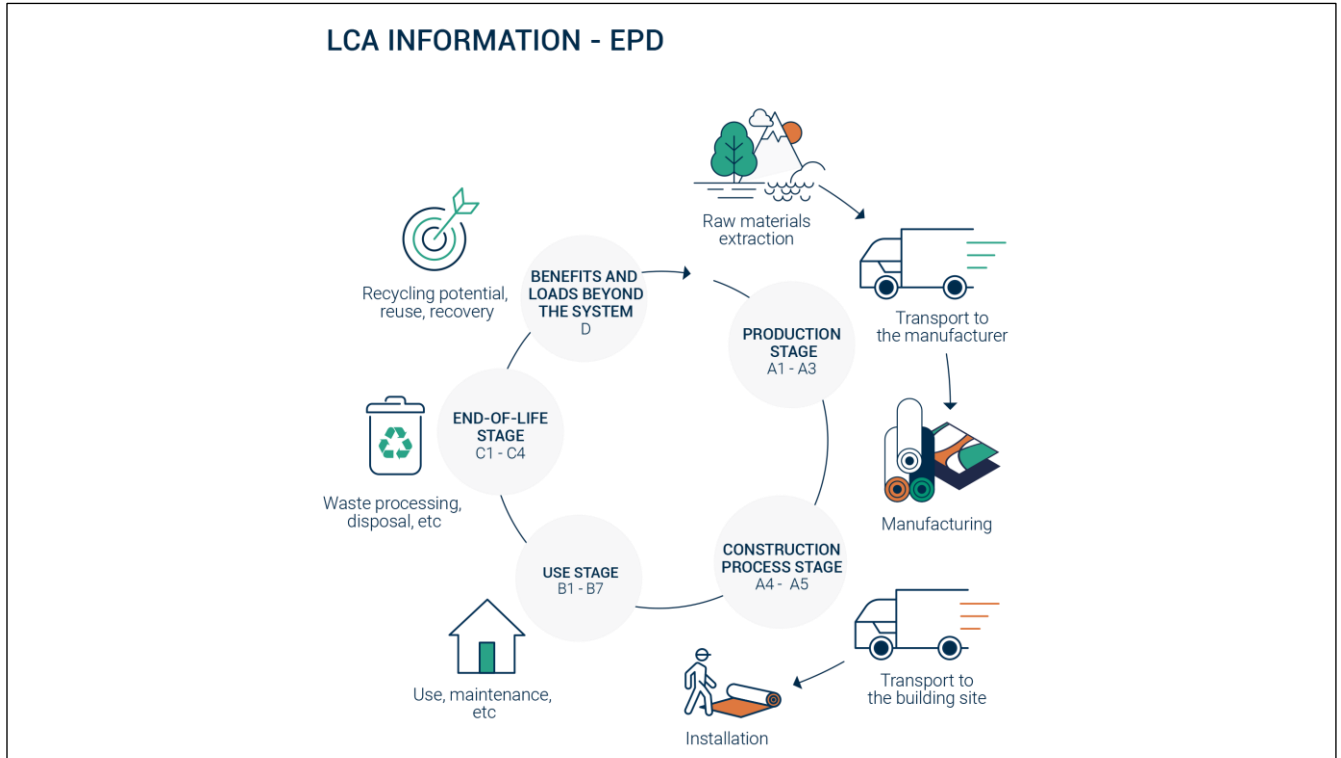
Reference service life: 1 year.

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<br>Heavy domestic use | 31<br>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 <sup>2</sup> ) | Recycled content |
|----------------------|----------------|-----------------------------|------------------|
| Essence Glue Down 30 | 2.0            | 3.30E+00                    | 55%              |

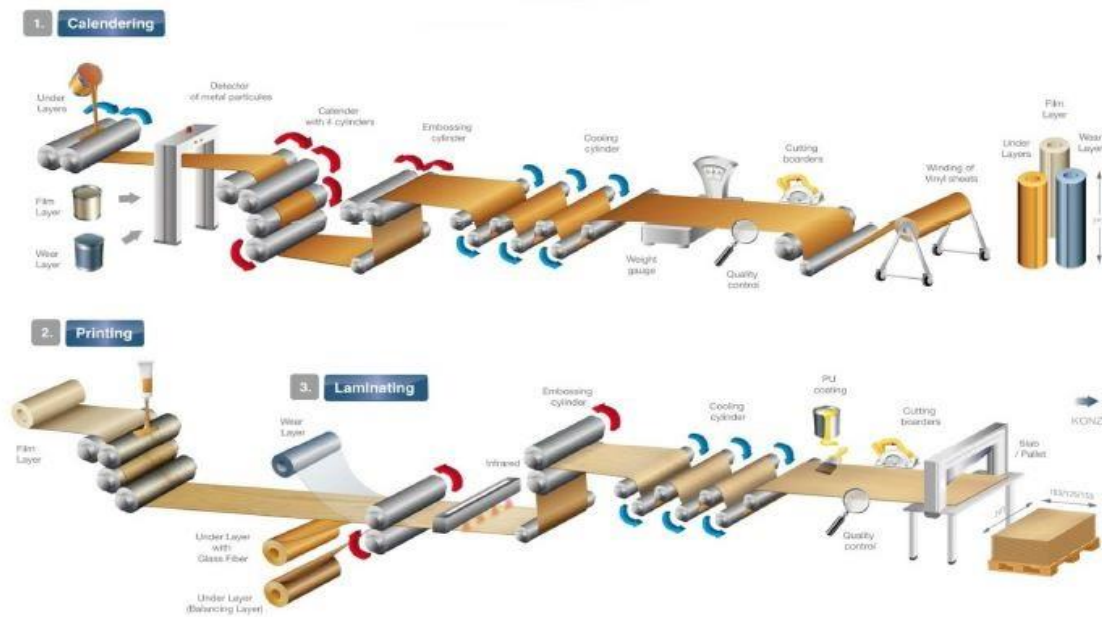
The components for the Essence Glue Down 30 group are detailed here:

| 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/m <sup>2</sup> |
| Hazardous waste to external treatment     | 3.34E-03 | kg/m <sup>2</sup> |

### Electricity GWP-GHG

| Plant    | Ecoinvent Module                                                                                    | % consumption | kgCO <sub>2</sub> eq/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 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/m <sup>2</sup> |

### 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 heterogeneous 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 <sup>2</sup> |
| Water consumption       | 5.18E+00 | L/year/m <sup>2</sup>   |
| Detergent consumption   | 6.37E-02 | L/year/m <sup>2</sup>   |

### 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 prominent waste management scenario. This option is however not recommended 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 which 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 <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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 <sup>+</sup> 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 <sub>4</sub> <sup>3-</sup> 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 <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 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        | m³   | 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 <sup>1</sup>                                                                 | kg CO <sub>2</sub> 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 |

<sup>1</sup> 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 <sub>2</sub> eq. | 0,00E+00 | 6,84E-02 | 5,87E+00 | 2,63E-03 | -1,04E+00 |
| GWP-fossil                                                                             | kg CO <sub>2</sub> eq. | 0,00E+00 | 6,84E-02 | 5,82E+00 | 2,62E-03 | -1,08E+00 |
| GWP- biogenic                                                                          | kg CO <sub>2</sub> eq. | 0,00E+00 | 2,17E-05 | 4,79E-02 | 1,37E-06 | 4,07E-02  |
| GWP- Luluc                                                                             | kg CO <sub>2</sub> eq. | 0,00E+00 | 3,34E-05 | 6,98E-04 | 7,97E-07 | -2,23E-03 |
| AP                                                                                     | mol H <sup>+</sup> 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 PO <sub>4</sub> 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 <sup>3</sup>         | 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 <sup>3</sup>         | 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)



# 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](http://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](http://www.environdec.com)*



## General information

### Programme information

|                   |                                                                     |
|-------------------|---------------------------------------------------------------------|
| <b>Programme:</b> | The International EPD® System                                       |
| <b>Address:</b>   | EPD International AB<br>Box 210 60<br>SE-100 31 Stockholm<br>Sweden |
| <b>Website:</b>   | <a href="http://www.environdec.com">www.environdec.com</a>          |
| <b>E-mail:</b>    | <a href="mailto:info@environdec.com">info@environdec.com</a>        |

### 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](http://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](http://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.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): 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<sup>2</sup> 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.

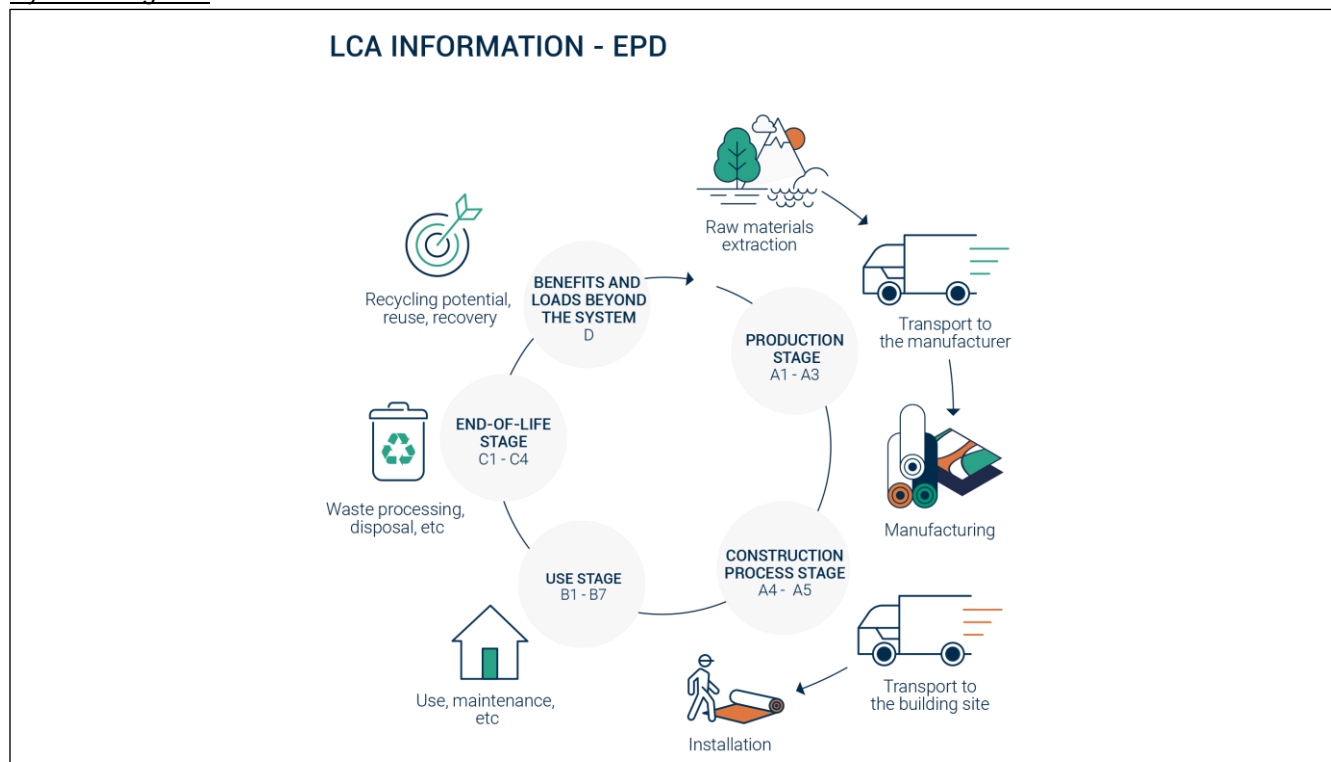
Reference service life: 1 year.

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<br>Heavy domestic use | 33<br>Heavy commercial use | 42<br>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 <sup>2</sup> ) | Recycled content |
|----------------------|----------------|-----------------------------|------------------|
| Essence Glue Down 55 | 2.5            | 3.45E+00                    | 41%              |

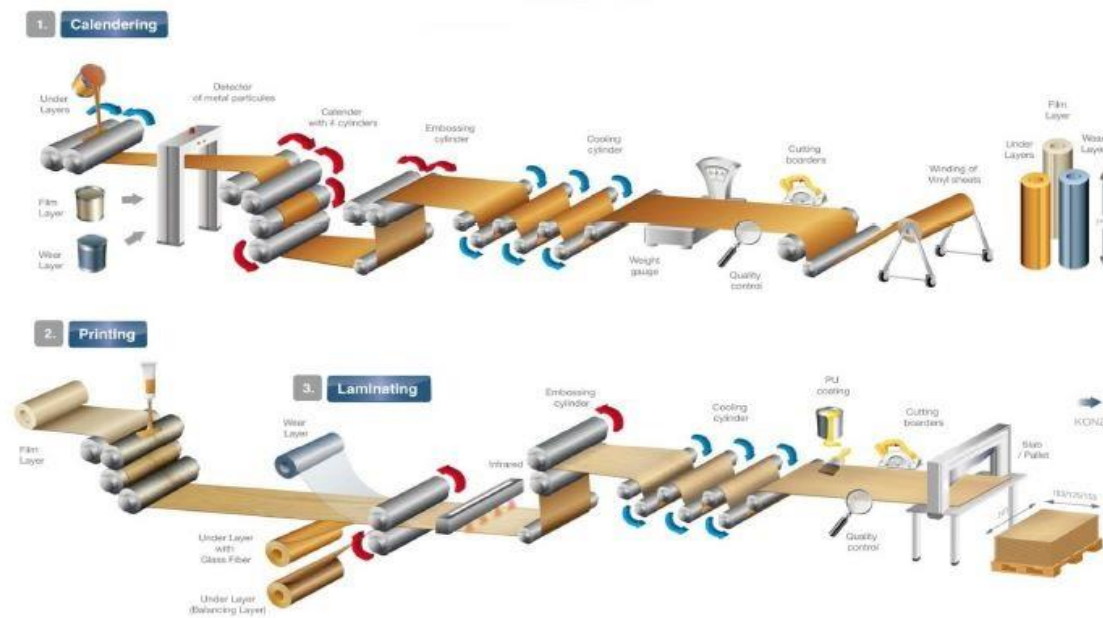
The components for the Essence Glue Down 55 group are detailed here:

| 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 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/m <sup>2</sup> |

### 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 heterogeneous 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 <sup>2</sup> |
| Water consumption       | 5.18E+00 | L/year/m <sup>2</sup>   |
| Detergent consumption   | 6.37E-02 | L/year/m <sup>2</sup>   |

## **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 prominent waste management scenario. This option is however not recommended 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 which 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 offsets recycling and are presented in **D/L**

### Incineration with energy recovery /I

Benefits from installation offsets 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 <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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 <sup>+</sup> 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 <sub>4</sub> <sup>3-</sup> 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 <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 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        | m³   | 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 <sup>1</sup>                                                                 | kg CO <sub>2</sub> 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 |

<sup>1</sup> 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 <sub>2</sub> eq. | 0,00E+00 | 7,14E-02 | 6,50E+00 | 2,23E-03 | -1,72E+00 |
| GWP-fossil                                                                             | kg CO <sub>2</sub> eq. | 0,00E+00 | 7,14E-02 | 6,42E+00 | 2,23E-03 | -1,78E+00 |
| GWP- biogenic                                                                          | kg CO <sub>2</sub> eq. | 0,00E+00 | 2,27E-05 | 7,68E-02 | 1,16E-06 | 6,95E-02  |
| GWP- Luluc                                                                             | kg CO <sub>2</sub> eq. | 0,00E+00 | 3,49E-05 | 7,77E-04 | 6,76E-07 | -3,61E-03 |
| AP                                                                                     | mol H <sup>+</sup> 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 PO <sub>4</sub> 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 <sup>3</sup>         | 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 <sup>3</sup>         | 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)



## 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 1<sup>st</sup> 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

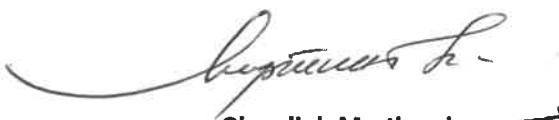
As far as recycling of floorings is concerned, Tarkett has always been a major player in this field and has been striving to minimize the depletion of natural resources. In accordance with the European Parliament's Directive 2006/12/EC encouraging the reuse of materials, Tarkett intends to actively continue 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