



SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

15309-10-1011

LVT Dryback 2 - 2,5 mm

Product group: Vinyl - Design floors



Unilin Flooring Deutschland GmbH
Reisholzer Werftstraße 33
40589 Düsseldorf



Product qualities:



Köttner

Helmut Köttner
Scientific Director

Freiburg, 02 February 2026



Contents

 SHI Product Assessment 2024	1
 QNG - Qualitätssiegel Nachhaltiges Gebäude	2
 DGNB New Construction 2023	3
 DGNB New Construction 2018	4
 BNB-BN Neubau V2015	5
 EU taxonomy	6
 BREEAM DE Neubau 2018	7
Product labels	8
Legal notices	9
Technical data sheet/attachments	10

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





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SHI Product Assessment 2024

Since 2008, Sentinel Holding Institut GmbH (SHI) has been establishing a unique standard for products that support healthy indoor air. Experts carry out independent product assessments based on clear and transparent criteria. In addition, the independent testing company SGS regularly audits the processes and data accuracy.

Criteria	Product category	Harmful substance limit	Assessment
SHI Product Assessment	Other floor coverings	TVOC $\leq 160 \mu\text{g}/\text{m}^3$ Formaldehyd $\leq 10 \mu\text{g}/\text{m}^3$	Indoor Air Quality Certified
Valid untill: 27 October 2027			



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QNG - Qualitätssiegel Nachhaltiges Gebäude

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

Criteria	Pos. / product group	Considered substances	QNG assessment
3.1.3 Schadstoffvermeidung in Baumaterialien	2.2 Resilient floor coverings – including multilayer systems	VOC / Emissions / hazardous substances / polycyclic aromatic hydrocarbons (PAH) / SVHC / heavy metals	QNG ready
Verification: Eurofins Ergebniszusammenfassung vom 31.01.2024 (Nr. 392-2023-00576401_A_EN). Konformitätserklärung vom 11.10.25, die die materielle Übereinstimmung bestätigt. Herstellererklärung vom 14.03.2025.			



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DGNB New Construction 2023

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

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 03.05.2024 (3rd edition)	7 Floor coverings (Resilient floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 3
Verification: Eurofins Ergebniszusammenfassung vom 31.01.2024 (Nr. 392-2023-00576401_A_EN). Konformitätserklärung vom 11.10.25, die die materielle Übereinstimmung bestätigt Herstellererklärung vom 14.03.2025.			

Criteria	Assessment
SOC1.2 Indoor air quality (*)	May positively contribute to the overall building score

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 29.05.2025 (4th edition)	7 Floor coverings for indoor use (elastic floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 3
Verification: Eurofins Ergebniszusammenfassung vom 31.01.2024 (Nr. 392-2023-00576401_A_EN). Herstellererklärung vom 14.03.2025. Konformitätserklärung vom 11.10.25, die die materielle Übereinstimmung bestätigt			



Product:

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DGNB New Construction 2018

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

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

Verification: Eurofins Ergebniszusammenfassung vom 31.01.2024 (Nr. 392-2023-00576401_A_EN). Konformitätserklärung vom 11.10.25, die die materielle Übereinstimmung bestätigt Herstellererklärung vom 14.03.2025.



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BNB-BN Neubau V2015

The Bewertungssystem Nachhaltiges Bauen (Assessment System for Sustainable Building) is a tool for evaluating public office and administrative buildings, educational facilities, laboratory buildings, and outdoor areas in Germany. The BNB was developed by the former Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) and is now overseen by the Federal Ministry for Housing, Urban Development and Building (BMWSB).

Criteria	Pos. / product type	Considered substance group	Quality level
1.1.6 Risiken für die lokale Umwelt	2a Elastic floor coverings – with and without bonded underlay or insulation layer	VOC / hazardous substances / heavy metals	Quality level 3

Verification: Eurofins Ergebniszusammenfassung vom 31.01.2024 (Nr. 392-2023-00576401_A_EN). Konformitätserklärung vom 11.10.25, die die materielle Übereinstimmung bestätigt Herstellererklärung vom 14.03.2025.



Product:

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EU taxonomy

The EU Taxonomy classifies economic activities and products according to their environmental impact. At the product level, the EU regulation defines clear requirements for harmful substances, formaldehyde and volatile organic compounds (VOCs). The Sentinel Holding Institut GmbH labels qualified products that meet this standard.

Criteria	Product type	Considered substances	Assessment
DNSH - Pollution prevention and control	Floor coverings (including associated adhesives and sealants)	Substances according to Annex C, formaldehyde, carcinogenic VOCs category 1A/1B	EU taxonomy compliant
Verification: Eurofins Ergebniszusammenfassung vom 31.01.2024 (Nr. 392-2023-00576401_A_EN). Konformitätserklärung vom 11.10.25, die die materielle Übereinstimmung bestätigt Herstellererklärung vom 14.03.2025.			



Product:

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BREEAM DE Neubau 2018

BREEAM (Building Research Establishment Environmental Assessment Methodology) is a UK-based building assessment system that evaluates the sustainability of new constructions, refurbishments, and conversions. Developed by the Building Research Establishment (BRE), the system aims to assess and improve the environmental, economic, and social performance of buildings.

Criteria	Product category	Considered substances	Quality level
Hea 02 Indoor Air Quality	Flooring materials (including floor levelling compounds and resin flooring)	Emissions: Formaldehyde, TVOC, TSVOC, carcinogens	Exemplary quality

Verification: Eurofins Ergebniszusammenfassung vom 31.01.2024 (Nr. 392-2023-00576401_A_EN). Konformitätserklärung vom 11.10.25, die die materielle Übereinstimmung bestätigt. Sicherheitsdatenblatt vom 28.09.2022.



Product:

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15309-10-1011



Product labels

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



The IBU ("Institut Bauen und Umwelt e.V.") is an initiative of building product manufacturers committed to sustainability in construction. It serves as the programme operator for Environmental Product Declarations (EPDs) in accordance with the EN 15804 standard. The IBU EPD programme provides comprehensive life cycle assessments and environmental impact data for construction products, supported by independent third-party verification.



This product is SHI Indoor Air Quality certified and recommended by Sentinel Holding Institut. Indoor-air-focused construction, renovation, and operation of buildings is made possible by transparent and verifiable criteria thanks to the Sentinel Holding concept.



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

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Legal notices

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

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

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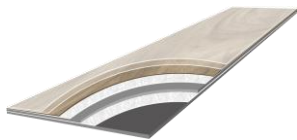
TECHNISCHES DATENBLATT

Ausgabe 07/2024

ABMESSUNGEN

FORMAT		Schmale Planke	Hexagon	Diamond
Breite	ISO 24342:2018-11	65,33 mm	196 mm	196 mm
Länge	ISO 24342:2018-11	261,33 mm	226,32 mm	113,16 mm
Anzahl der Paneele pro Packung		116	44	132
m² pro Packung		1,980 m²	1,464 m²	1,464 m²
Gewicht pro Packung		8,14 kg	6,14 kg	6,10 kg
FORMAT		Triangle	Chevron	Parallelogram
Breite	ISO 24342:2018-11	392 mm	92,4 mm	196 mm
Länge	ISO 24342:2018-11	452,64 mm	522,67 mm	452,64 mm
Anzahl der Paneele pro Packung		17	42	17
m² pro Packung		1,508 m²	2,028 m²	1,508 m²
Gewicht pro Packung		6,10 kg	8,17 kg	6,51 kg
FORMAT		Trapezoid	Big Hexagon	
Breite	ISO 24342:2018-11	196 mm	392 mm	
Länge	ISO 24342:2018-11	452,6 mm	452,64 mm	
Anzahl der Paneele pro Packung		34	17	
m² pro Packung		2,262 m²	2,262 m²	
Gewicht pro Packung		9,57 kg	9,57 kg	
Gesamtgewicht per Verpackungseinheit	EN ISO 23997:2012-02	4065 g/m² [-10%; +13%]		
Gesamtstärke	ISO 24346:2006-10	2,5 mm		
Deckschicht	EN ISO 24340:2012-02	0,55 mm		

PANELAUFBAU



- Oberflächenvergütung
- PVC-Nutzschicht
- PVC-Design-Lage
- Glasfaser-Lage
- PVC-Kompaktmittelschicht
- Glasfaser-Lage
- PVC-Rücken

WERKSGARANTIE

	METHODE	PARAMETER	WERTE	
Beanspruchungsklasse	EN ISO 10874		Klasse	23 - 33 - 42*
Produktnorm	EN ISO 10582:2018-01 (EN 16511)			
CE	EN 14041:2004 / AC:2006	Notifizierte Stelle	NB 2401 - CRET	DOP: siehe Endetikett auf Packung
UKCA	EN 14041:2004 / AC:2006	Approved body	AB 0321 - Satra UK	DOP: siehe Endetikett auf Packung
Garantie	Wohnzwecke	Siehe Garantiebedingungen	Lebenslang	
	Gewerbliche Nutzung	Siehe Garantiebedingungen	10	Jahre

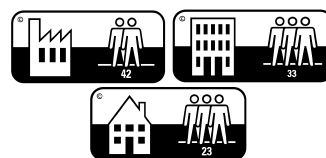
* Nur gültig für vollständig verklebte Verlegung, nicht anwendbar auf schwimmend verlegte Unterlagen

ALLGEMEINE ANGABEN

	METHODE	PARAMETER	NORMANFORDERUNGEN	MODULEO WERTE
Geradlinigkeit und Rechtwinkligkeit	EN ISO 24342:2018-11		≤400mm: ≤0,25 mm >400mm: ≤0,35mm	OK
Nutzschicht	EN ISO 10582:2018-01		Type 1	OK
Abriebbeständigkeit	EN 13329 - Annex E			≥ 2000 Zyklen
Schlagfestigkeit	EN 13329 - Annex F			≥ 1600 mm
Kratzbeständigkeit	EN 16094:2021-06			≤ MSR-A2
				≤ MSR-B1
Bürostühle	ISO 4918:2016-03	25000 Zyklen		Keine Delamination, keine Störung
Möbelfußverschiebung	EN ISO 16581:2019-06	Fuß 0,1 mm / 32 kg		Keine sichtbaren Schäden
Eindruck	EN ISO 24343-1:2012-01		≤ 0,1 mm	Durchschnittswert: 0,05 mm
Fluckenunempfindlichkeit	EN 438-2:2016+A1:2018-12	Aceton - Kaffee - NaOH - H2O2 - Schuhcreme		OK
Maßänderung	EN ISO 23999:2021-11	6 Stunden bei 80°C	≤ 0,25 %	Durchschnittswert: ≤ 0,05 %
Schüsselung	EN ISO 23999:2021-11		≤ 2 mm	OK
Lichtechtheit	ISO 105-B02:2014-09	Blau Referenz	Klasse ≥ 6	OK
Trittschalldämmung	ISO 717-2	Trittschallverringern	Fest verklebt	ΔL _w = 3 dB
			Auf einer Flex Pro Unterlage	ΔL _w = 10 dB
Fußbodenheizung		Geeignet für alle standardisierten Warmwasser-Fußbodenheizungen in zementären Untergründen. Nur bedingt geeignet für elektrische oder alternative Fußbodenheizungen. Maximale Temperatur ≤ 27°C in den Belaggründen einwirkend. Bitte beachten		

UMWELT, SICHERHEIT UND GESUNDHEIT

	METHODE	PARAMETER	NORMANFORDERUNGEN	MODULEO WERTE
AFFSET				A+
Floorscore				SCS-FS-02828
Finnish Building Emission			M1:Sehr emissionsarm, geruchlos	OK
Formaldehydemission	EN 717-1:2004-10	Kein Formaldehyd während der Produktion z E1 ($\leq 0,124 \text{ mg/m}^3$)		< Nachweisgrenze
TVOC 28 Tage	ISO 16000 part 9-6	AgBB-Anforderung nach 28 Tagen $<1000 \mu\text{g} / \text{m}^3$		OK
Brandklasse	EN 13501-1:2018			Bfl-s1
Wärmewiderstand	EN 12667:2001-01	Ohne Unterlag		0,01 $\text{m}^2 \text{K/W}$
Anti-Statik	EN 1815:2016-09		$\leq 2 \text{ kV}$	OK
Rutschfestigkeit	EN 13893:2002-11		$\mu \geq 0,30$	DS
	EN 16165:2021-10 Annex B			R9 - R10
	EN 16165:2021 - Annex C (UKSRG)	Nass	PTV ₉₆	Niedriges (PTV ₉₆ ≥ 36) oder Moderates (35 $\geq$ PTV ₉₆ ≥ 25) Rutschpotential
		Trocken	PTV ₉₆	Niedriges Rutschpotential (PTV ₉₆ ≥ 36)
	UNE-EN 16165:2021 - Annex C			
	Anexo Nacional A (ES)	Trocken	PTV ₉₆	PTV ₉₆ ≥ 56
Inhalt	Schwermetalle+ Blei / Cadmium			NICHT vorhanden
Gefährliche Stoffe	Karzinogene, mutagene oder reprotoxische Stoffe Klasse 1A und 1B (Kandidatenliste)			NICHT vorhanden
REACH	Regulation (EC)			Konform
Recycling-Inhalt	Nur INTERNAL Recycling-Material verwendet			$\geq 20\%$



moduleo® Roots 55

design floors

TECHNISCHES DATENBLATT

Ausgabe 07/2024

ABMESSUNGEN

FORMAT		Fischgrät	Standardgroße Planke	Mittelgroße Planke
Breite	ISO 24342:2018-11	158 mm	196 mm	214 mm
Länge	ISO 24342:2018-11	632 mm	1320 mm	1498 mm
Anzahl der Paneele pro Packung		24	14	10
m² pro Packung		2,397 m²	3,662 m²	3,206 m²
Gewicht pro Packung		9,97 kg	15,09 kg	13,43 kg

FORMAT		Quadratische Fliese	Schmale Fliese	Mittelgroße Fliese
Breite	ISO 24342:2018-11	493 mm	329 mm	493 mm
Länge	ISO 24342:2018-11	493 mm	659 mm	986 mm
Anzahl der Paneele pro Packung		14	16	10
m² pro Packung		3,403 m²	3,469 m²	4,861 m²
Gewicht pro Packung		14,16 kg	14,41 kg	20,27 kg

Gesamtgewicht per Verpackungseinheit	EN ISO 23997:2012-02	4063 g/m² [-10%; +13%]
Gesamtstärke	ISO 24346:2006-10	2,5 mm
Deckschicht	EN ISO 24340:2012-02	0,55 mm
Fasen		4V Micro

PANELAUFBAU



- 1 Oberflächenvergütung
- 2 PVC-Nutzschicht
- 3 PVC-Design-Lage
- 4 Glasfiber-Lage
- 5 PVC-Kompaktmittelschicht
- 6 Glasfiber-Lage
- 7 PVC-Rücken

WERKSGARANTIE

	METHODE	PARAMETER	WERTE	
Beanspruchungsklasse	EN ISO 10874		Klasse	23 - 33 - 42*
UPEC (FR)	À l'exception de Béton rompu	Certificat n° 345-010.1_06/23 - QB30 - http://evaluation.cstb.fr		U _p P ₂ E ₂ C ₂ / U _p P ₂ E ₁ C ₂
Produktnorm	EN ISO 10582:2018-01 (EN 16511)			
CE	EN 14041:2004 / AC:2006	Notifizierte Stelle	NB 2401 - CRET	DOP: siehe Endetikett auf Packung
UKCA	EN 14041:2004 / AC:2006	Approved body	AB 0321 - Satra UK	DOP: siehe Endetikett auf Packung
Garantie	Wohnzwecke	Siehe Garantiebedingungen	Lebenslang	
	Gewerbliche Nutzung	Siehe Garantiebedingungen	10	Jahre

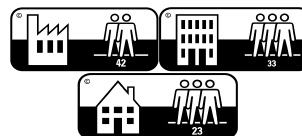
* Nur gültig für vollflächig verklebte Verlegung, nicht anwendbar auf schwimmend verlegte Unterlagen

ALLGEMEINE ANGABEN

	METHODE	PARAMETER	NORMANFORDERUNGEN	MODULEO WERTE
Geradlinigkeit und Rechtwinkligkeit	EN ISO 24342:2018-11		≤400mm: ≤0,25 mm >400mm: ≤0,35mm	OK
Nutzschicht	EN ISO 10582:2018-01		Type 1	OK
Abriebbeständigkeit	EN 13329 - Annex E			≥ 2000 Zyklen
Schlagfestigkeit	EN 13329 - Annex F			≥ 1600 mm
Kratzbeständigkeit	EN 16094:2021-06			≤ MSR-A2
				≤ MSR-B1
Bürostühle	ISO 4918:2016-03	25000 Zyklen		Keine Delamination, keine Störung
Möbelfußverschiebung	EN ISO 16581:2019-06	Fuß 0,1 mm / 32 kg		Keine sichtbaren Schäden
Eindruck	EN ISO 24343-1:2012-01		≤ 0,1 mm	Durchschnittswert: 0,05 mm
Fleckenunempfindlichkeit	EN 438-2:2016+A1:2018-12	Aceton - Kaffee - NaOH - H2O2 - Schuhcreme		OK
Maßänderung	EN ISO 23999:2021-11	6 Stunden bei 80°C	≤ 0,25 %	Durchschnittswert: ≤ 0,05 %
Schlüsselung	EN ISO 23999:2021-11		≤ 2 mm	OK
Lichtechtheit	ISO 105-B02:2014-09	Blau Referenz	Klasse ≥ 6	OK
Trittschalldämmung	ISO 717-2	Trittschallverringern	Fest verklebt Auf einer Flex Pro Unterlage	ΔL _w = 3 dB ΔL _w = 10 dB
Fußbodenheizung		Geeignet für alle standardisierten Warmwasser-Fußbodenheizungen in zementären Untergründen. Nur bedingt geeignet für elektrische oder alternative Fußbodenheizungen. Maximale Temperatur ≤ 27°C in den Belaggründen einwirkend. Bitte beachten		

UMWELT, SICHERHEIT UND GESUNDHEIT

	METHODE	PARAMETER	NORMANFORDERUNGEN	MODULEO WERTE
AFFSET				A+
Floorscore				SCS-FS-02828
Finnish Building Emission			M1:Sehr emissionsarm, geruchlos	OK
Formaldehydemission	EN 717-1:2004-10	Kein Formaldehyd während der Produktion z E1 ($\leq 0,124 \text{ mg/m}^3$)		< Nachweisgrenze
TVOC 28 Tage	ISO 16000 part 9-6	AgBB-Anforderung nach 28 Tagen $<1000 \mu\text{g} / \text{m}^3$		OK
Brandklasse	EN 13501-1:2018			Bfl-s1
Wärmewiderstand	EN 12667:2001-01	Ohne Unterlag		0,01 $\text{m}^2 \text{K/W}$
Anti-Statik	EN 1815:2016-09		$\leq 2 \text{ kV}$	OK
Rutschfestigkeit	EN 13893:2002-11		$\mu \geq 0,30$	DS
	EN 16165:2021-10 Annex B			R9 - R10
	EN 16165:2021 - Annex C (UKSRG)	Nass	PTV ₉₆	Niedriges (PTV ₉₆ ≥ 36) oder Moderates (35 $\geq$ PTV ₉₆ $\geq$ 25) Rutschpotential
		Trocken	PTV ₉₆	Niedriges Rutschpotential (PTV ₉₆ ≥ 36)
	UNE-EN 16165:2021 - Annex C			
	Anexo Nacional A (ES)	Trocken	PTV ₉₆	PTV ₉₆ ≥ 56
	Schwermetalle+ Blei / Cadmium			NICHT vorhanden
Inhalt				NICHT vorhanden
Gefährliche Stoffe	Karzinogene, mutagene oder reprotoxische Stoffe Klasse 1A und 1B (Kandidatenliste)			Konform
REACH	Regulation (EC)			$\geq 20\%$
Recycling-Inhalt	Nur INTERNAL Recycling-Material verwendet			



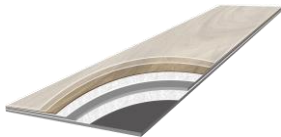
TECHNISCHES DATENBLATT

Ausgabe 07/2025

ABMESSUNGEN

FORMAT		Standardgröße Planke	Schmale Fliese
Breite	ISO 24342:2018-11	196 mm	329 mm
Länge	ISO 24342:2018-11	1320 mm	659 mm
Anzahl der Paneele pro Packung		18	18
m ² pro Packung		4,657 m ²	3,903 m ²
Gewicht pro Packung		15,64 kg	13,26 kg
Gesamtgewicht/Verpackungseinheit		3323 g/m ²	
Gesamtstärke	ISO 24346:2006-10	2 mm	
Deckschicht	EN ISO 24340:2012-02	0,3 mm	
Veredelung		Superguard Pro [®]	

PANELAUFBAU



- Oberflächenvergütung
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- PVC-Design-Lage
- Glasfaser-Lage
- PVC-Kompaktmittelschicht
- Glasfaser-Lage
- PVC-Rücken

WERKSGARANTIE

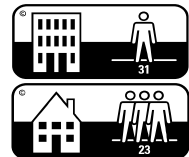
METHODE	PARAMETER	WERTE	
Beanspruchungsklasse	EN ISO 10874 / EN ISO 10582:2018-01	Klasse	23 - 31
Produktnorm	EN ISO 10582:2018-01 (EN 16511)		
CE	EN 14041:2004 / AC:2006	Notifizierte Stelle	
UKCA	EN 14041:2004 / AC:2006	Approved body	
Garantie	Wohnzwecke	Siehe Garantiebedingungen	
	Gewerbliche Nutzung	Siehe Garantiebedingungen	
		NB 0493 - Centexbel	DOP: siehe Endetikett auf Packung
		AB 8515 - Centexbel Int. Ltd.	
		20	Jahre
		5	Jahre

ALLGEMEINE ANGABEN

METHODE	PARAMETER	NORMANFORDERUNGEN	MODULEO WERTE
Geradlinigkeit und Rechtwinkligkeit	EN ISO 24342:2018-11	≤400mm: ≤0,25 mm >400mm: ≤0,35mm	≤400mm: ≤0,25 mm >400mm: ≤0,35mm Type 1 ≥ 800 mm Keine sichtbaren Schäden
Nutzschicht	EN ISO 10582:2018-01		
Schlagfestigkeit	EN 13329:2006+A1:2008-08, Annex F		
Möbelfußverschiebung	EN ISO 16581:2019-06	Fuß 0,1 mm / 32 kg	
Eindruck	EN ISO 24343-1:2012-01	≤ 0,1 mm	Durschschnittswert: 0,05 mm
Maßänderung	EN ISO 23999:2021-11	6 Stunden bei 80°C	Durschschnittswert: ≤ 0,05 %
Schüsselung	EN ISO 23999:2021-11	≤ 2 mm	≤ 2 mm
Lichtehtheit	ISO 105-B02:2014-09	Klasse ≥ 6	Klasse ≥ 6
Trittschalldämmung	DIN EN ISO 717-2:2013-06	Trittschallverringern	ΔLw = 4 dB
Fußbodenheizung		Geeignet für alle standardisierten Warmwasser-Fußbodenheizungen in zementären Untergründen. Nur bedingt geeignet für elektrische oder alternative Fußbodenheizungen. Maximale Temperatur ≤ 27°C in den Belagrücken einwirkend. Bitte beachten Sie die Verlegeempfehlung.	

UMWELT, SICHERHEIT UND GESUNDHEIT

	METHODE	PARAMETER	NORMANFORDERUNGEN	MODULEO WERTE
AFFSET				A+
Floorscore				SCS-FS-09272
Formaldehydemission	EN 717-1:2004-10	Kein Formaldehyd während der Produktion zugeführt	E1 ($\leq 0,124 \text{ mg/m}^3$)	< Nachweisgrenze
TVOC 28 Tage	ISO 16000 part 9-6	AgBB-Anforderung nach 28 Tagen	$< 1000 \mu\text{g} / \text{m}^3$	OK
Brandklasse	EN 13501-1:2018			Bfl-s1
Wärmewiderstand	EN 12667:2001-01	Ohne Unterlag		$0,01 \text{ m}^2 \text{ K/W}$
Anti-Statik	EN 1815:2016-09			$\leq 2 \text{ kV}$
Rutschfestigkeit	EN 13893:2002-11		$\mu \geq 0,30$	DS
Inhalt	EN 16165:2021-10 Annex B			$\geq \text{R9}$
Gefährliche Stoffe	Schwermetalle+ Blei / Cadmium			NICHT vorhanden
REACH	Karzinogene, mutagene oder reprotoxische Stoffe Klasse 1A und 1B (Kandidatenliste)			NICHT vorhanden
Weichmacher	Phthalatfreie Weichmacher außer Recycling-Inhalt			Konform
Recycling-Inhalt	Mindestens 21% Pre-Consumer rezyklierter PVC-Anteil			SCS-RC-20325



TECHNISCHES DATENBLATT

Ausgabe 07/2024

ABMESSUNGEN

FORMAT		Standardgröße Planke	Schmale Fliese
Breite	ISO 24342:2018-11	196 mm	329 mm
Länge	ISO 24342:2018-11	1320 mm	659 mm
Anzahl der Paneele pro Packung		15	18
m ² pro Packung		3,881 m ²	3,903 m ²
Gewicht pro Packung		15,30 kg	13,74 kg
Gesamtgewicht per Verpackungseinheit	EN ISO 23997:2012-02	3821 g/m ² [-10%; +13%]	
Gesamtstärke	ISO 24346:2006-10	2,35 mm	
Deckschicht	EN ISO 24340:2012-02	0,4 mm	
Veredelung		Superguard Pro®	

WERKSGARANTIE

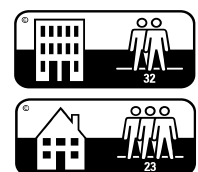
	METHODE	PARAMETER	WERTE	
Beanspruchungsklasse	EN ISO 10874		Klasse	23 - 32
UPEC (FR)		Certificat n° 345-15.0-00/24 - QB30 - http://evaluation.cstb.fr		U ₂ P ₂ E ₂ C ₂ / U ₂ P ₂ E ₁ C ₂
Produktnorm	EN ISO 10582:2018-01 (EN 16511)			
CE	EN 14041:2004 / AC:2006	Notifizierte Stelle	NB 2401 - CRET	DOP: siehe Endetikett auf Packung
UKCA	EN 14041:2004 / AC:2006	Approved body	AB 0321 - Satra UK	DOP: siehe Endetikett auf Packung
Garantie	Wohnzwecke	Siehe Garantiebedingungen	20	Jahre
	Gewerbliche Nutzung	Siehe Garantiebedingungen	7	Jahre

ALLGEMEINE ANGABEN

	METHODE	PARAMETER	NORMANFORDERUNGEN	WERTE
Geradlinigkeit und Rechtwinkligkeit	EN ISO 24342:2018-11		≤400mm: ≤0,25 mm >400mm: ≤0,35mm	OK
Nutzschicht	EN ISO 10582:2018-01		Type 1	OK
Abriebbeständigkeit	EN 13329 - Annex E			≥ 1200 Zyklen
Schlagfestigkeit	EN 13329 - Annex F			≥ 1200 mm
Bürostühle	ISO 4918:2016-03	25000 Zyklen		Keine Delamination, keine Störung
Möbelfußverschiebung	EN ISO 16581:2019-06	Fuß 0,1 mm / 32 kg		Keine sichtbaren Schäden
Eindruck	EN ISO 24343-1:2012-01		≤ 0,1 mm	Durchschnittswert: 0,05 mm
Fleckenunempfindlichkeit	EN 438-2:2016+A1:2018-12	Aceton - Kaffee - NaOH - H ₂ O ₂ - Schuhcreme		OK
Maßänderung	EN ISO 23999:2021-11	6 Stunden bei 80°C	≤ 0,25 %	Durchschnittswert: ≤ 0,05 %
Schüsselung	EN ISO 23999:2021-11		≤ 2 mm	OK
Lichtechtheit	ISO 105-B02:2014-09	Blau Referenz	Klasse ≥ 6	OK
Trittschalldämmung	ISO 717-2	Trittschallverringerng	Fest verklebt Auf einer Flex Pro Unterlage	ΔL _w = 4 dB ΔL _w = 8 dB
Fußbodenheizung		Geeignet für alle standardisierten Warmwasser-Fußbodenheizungen in zementären Untergründen. Nur bedingt geeignet für elektrische oder alternative Fußbodenheizungen. Maximale Temperatur ≤ 27°C in den Belagrücken einwirkend. Bitte beachten Sie die Verlegeempfehlung.		

UMWELT, SICHERHEIT UND GESUNDHEIT

	METHODE	PARAMETER	NORMANFORDERUNGEN	WERTE
AFFSET				A+
Floorscore				SCS-FS-02828
Formaldehydmission	EN 717-1:2004-10	Kein Formaldehyd während der Produktion zugef. E1 (≤ 0,124 mg/m ³)		< Nachweisgrenze
TVOC 28 Tage	ISO 16000 part 9-6	AgBB-Anforderung nach 28 Tagen <1000 µg / m ³		OK
Brandklasse	EN 13501-1:2018			Bfl-s1
Wärmewiderstand	EN 12667:2001-01	Ohne Unterlag		0,01 m ² K/W
Anti-Statik	EN 1815:2016-09		≤ 2 kV	OK
Rutschfestigkeit	EN 13893:2002-11		µ ≥ 0,30	DS
Inhalt	EN 16165:2021-10 Annex B			R9
Gefährliche Stoffe	Schwermetalle+ Blei / Cadmium			NICHT vorhanden
REACH	Karzinogene, mutagene oder reprotoxische Stoffe Klasse 1A und 1B (Kandidatenliste)			NICHT vorhanden
Recycling-Inhalt	Regulation (EC)			Konform
	Nur INTERNAL Recycling-Material verwendet			≥ 20%





TECHNISCHES DATENBLATT

Ausgabe 07/2024

ABMESSUNGEN

FORMAT		Schmale Planke	Standardgröße Planke	Schmale Fliese
Breite	ISO 24342:2018-11	163 mm	196 mm	329 mm
Länge	ISO 24342:2018-11	988 mm	1320 mm	659 mm
Anzahl der Paneele pro Packung		24	18	18
m ² pro Packung		3,865 m ²	4,657 m ²	3,903 m ²
Gewicht pro Packung		12,89 kg	15,64 kg	13,26 kg
Gesamtgewicht per Verpackungseinheit	EN ISO 23997:2012-02	3293 g/m ² [-10%; +13%]		
Gesamtstärke	ISO 24346:2006-10	2 mm		
Deckschicht	EN ISO 24340:2012-02	0,3 mm		
Veredelung		Superguard Pro®		

WERKSGARANTIE

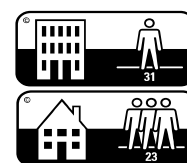
	METHODE	PARAMETER	WERTE	
Beanspruchungsklasse	EN ISO 10874		Klasse	23 - 31
UPEC (FR)		Certificat n° 345-16.0-00/24 - QB30 - http://evaluation.cstb.fr		U ₂ P ₃ E ₂ C ₂ / U ₂ P ₃ E ₁ C ₂
Produktnorm	EN ISO 10582:2018-01 (EN 16511)			
CE	EN 14041:2004 / AC:2006	Notifizierte Stelle	NB 2401 - CRET	DOP: siehe Endetikett auf Packung
UKCA	EN 14041:2004 / AC:2006	Approved body	AB 0321 - Satra UK	DOP: siehe Endetikett auf Packung
Garantie	Wohnzwecke	Siehe Garantiebedingungen	15	Jahre
	Gewerbliche Nutzung	Siehe Garantiebedingungen	5	Jahre

ALLGEMEINE ANGABEN

	METHODE	PARAMETER	NORMANFORDERUNGEN	WERTE
Geradlinigkeit und Rechtwinkligkeit	EN ISO 24342:2018-11		≤400mm: ≤0,25 mm >400mm: ≤0,35mm	OK
Nutzschicht	EN ISO 10582:2018-01		Type 1	OK
Abriebbeständigkeit	EN 13329 - Annex E			≥ 600 Zyklen
Schlagfestigkeit	EN 13329 - Annex F			≥ 800 mm
Bürostühle	ISO 4918:2016-03	25000 Zyklen		Keine Delamination, keine Störung
Möbelfußverschiebung	EN ISO 16581:2019-06	Fuß 0,1 mm / 32 kg		Keine sichtbaren Schäden
Eindruck	EN ISO 24343-1:2012-01		≤ 0,1 mm	Durchschnittswert: 0,05 mm
Fleckenunempfindlichkeit	EN 438-2:2016+A1:2018-12	Aceton - Kaffee - NaOH - H ₂ O ₂ - Schuhcreme		OK
Maßänderung	EN ISO 23999:2021-11	6 Stunden bei 80°C	≤ 0,25 %	Durchschnittswert: ≤ 0,05 %
Schüsselung	EN ISO 23999:2021-11		≤ 2 mm	OK
Lichteinheit	ISO 105-802:2014-09	Blau Referenz	Klasse ≥ 6	OK
Trittschalldämmung	ISO 717-2	Trittschallverringern	Fest verklebt	ΔL _w = 4 dB
Fußbodenheizung		Geeignet für alle standardisierten Warmwasser-Fußbodenheizungen in zementären Untergründen. Nur bedingt geeignet für elektrische oder alternative Fußbodenheizungen. Maximale Temperatur ≤ 27°C in den Belagrücken einwirkend. Bitte beachten Sie die Verlegeempfehlung.		

UMWELT, SICHERHEIT UND GESUNDHEIT

	METHODE	PARAMETER	NORMANFORDERUNGEN	WERTE
AFFSET				A+
Floorscore				SCS-FS-02828
Formaldehydmission	EN 717-1:2004-10	Kein Formaldehyd während der Produktion zugef. E1 (≤ 0,124 mg/m ³)		< Nachweisgrenze
TVOC 28 Tage	ISO 16000 part 9-6	AgBB-Anforderung nach 28 Tagen <1000 µg / m ³		OK
Brandklasse	EN 13501-1:2018			Bfl-s1
Wärmewiderstand	EN 12667:2001-01	Ohne Unterlag		0,01 m ² K/W
Anti-Statik	EN 1815:2016-09		≤ 2 kV	OK
Rutschfestigkeit	EN 13893:2002-11		µ ≥ 0,30	DS
	EN 16165:2021-10 Annex B			R9 - R10
Inhalt	Schwermetalle+ Blei / Cadmium			NICHT vorhanden
Gefährliche Stoffe	Karzinogene, mutagene oder reprotoxische Stoffe Klasse 1A und 1B (Kandidatenliste)			NICHT vorhanden
REACH	Regulation (EC)			Konform
Recycling-Inhalt	Nur INTERNAL Recycling-Material verwendet			≥ 20%



TECHNISCHES DATENBLATT

Ausgabe 07/2024

ABMESSUNGEN

FORMAT		Standardgröße Planke	Schmale Fliese
Breite	ISO 24342:2018-11	196 mm	329 mm
Länge	ISO 24342:2018-11	1320 mm	659 mm
Anzahl der Paneele pro Packung		14	16
m² pro Packung		3,622 m²	3,469 m²
Gewicht pro Packung		15,19 kg	14,37 kg
Gesamtgewicht per Verpackungseinheit	EN ISO 23997:2012-02	4063 g/m² [-10%; +13%]	
Gesamtstärke	ISO 24346:2006-10	2,5 mm	
Deckschicht	EN ISO 24340:2012-02	0,55 mm	
Veredelung		Superguard Pro®	

WERKSGARANTIE

	METHODE	PARAMETER	WERTE
Beanspruchungsklasse	EN ISO 10874		Klasse
UPEC (FR)		Certificat n° 345-013.1_01/23 - QB30 - http://evaluation.cstb.fr	23 - 33 - 42*
Produktnorm	EN ISO 10582:2018-01 (EN 16511)		U ₃ P ₃ E ₂ C ₂ / U ₃ P ₃ E ₁ C ₂
CE	EN 14041:2004 / AC:2006	Notifizierte Stelle	NB 2401 - CRET
UKCA	EN 14041:2004 / AC:2006	Approved body	AB 0321 - Satra UK
Garantie	Wohnzwecke	Siehe Garantiebedingungen	25 Jahre
	Gewerbliche Nutzung	Siehe Garantiebedingungen	10 Jahre

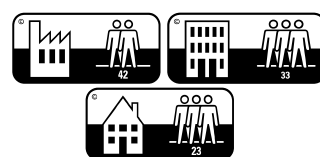
* Nur gültig für vollflächig verklebte Verlegung, nicht anwendbar auf schwimmend verlegte Unterlagen

ALLGEMEINE ANGABEN

	METHODE	PARAMETER	NORMANFORDERUNGEN	WERTE
Geradlinigkeit und Rechtwinkligkeit	EN ISO 24342:2018-11		≤400mm: ≤0,25 mm >400mm: ≤0,35mm	OK
Nutzschicht	EN ISO 10582:2018-01		Type 1	OK
Abriebbeständigkeit	EN 13329 - Annex E			≥ 2000 Zyklen
Schlagfestigkeit	EN 13329 - Annex F			≥ 1600 mm
Bürostühle	ISO 4918:2016-03	25000 Zyklen		Keine Delamination, keine Störung
Möbelfußverschiebung	EN ISO 16581:2019-06	Fuß 0,1 mm / 32 kg		Keine sichtbaren Schäden
Eindruck	EN ISO 24343-1:2012-01		≤ 0,1 mm	Durchschnittswert: 0,05 mm
Fleckenunempfindlichkeit	EN 438-2:2016+A1:2018-12	Aceton - Kaffee - NaOH - H ₂ O ₂ - Schuhcreme		OK
Maßänderung	EN ISO 23999:2021-11	6 Stunden bei 80°C	≤ 0,25 %	Durchschnittswert: ≤ 0,05 %
Schlüsselung	EN ISO 23999:2021-11		≤ 2 mm	OK
Lichtechtheit	ISO 105-B02:2014-09	Blau Referenz	Klasse ≥ 6	OK
Trittschalldämmung	ISO 717-2	Trittschalverringung	Fest verklebt	ΔL _w = 3 dB
			Auf einer Flex Pro Unterlage	ΔL _w = 10 dB
Fußbodenheizung		Geeignet für alle standardisierten Warmwasser-Fußbodenheizungen in zementären Untergründen. Nur bedingt geeignet für elektrische oder alternative Fußbodenheizungen. Maximale Temperatur ≤ 27°C in den Belagrücken einwirkend. Bitte beachten Sie die Verlegeempfehlung.		

UMWELT, SICHERHEIT UND GESUNDHEIT

	METHODE	PARAMETER	NORMANFORDERUNGEN	WERTE
AFFSET				A+
Floorscore				SCS-FS-02828
Formaldehydemission	EN 717-1:2004-10	Kein Formaldehyd während der Produktion zugefügt	E1 (≤ 0,124 mg/m³)	< Nachweisgrenze
TVOC 28 Tage	ISO 16000 part 9-6	AgBB-Anforderung nach 28 Tagen <1000 µg / m³		OK
Brandklasse	EN 13501-1:2018			Bfl-s1
Wärmewiderstand	EN 12667:2001-01	Ohne Unterlag		0,01 m² K/W
Anti-Statik	EN 1815:2016-09		≤ 2 kV	OK
Rutschfestigkeit	EN 13893:2002-11		μ ≥ 0,30	DS
	EN 16165:2021-10 Annex B			R9 - R10
Inhalt	Schwermetalle+ Blei / Cadmium			NICHT vorhanden
Gefährliche Stoffe	Karzinogene, mutagene oder reprotoxische Stoffe	Klasse 1A und 1B (Kandidatenliste)		NICHT vorhanden
REACH	Regulation (EC)			Konform
Recycling-Inhalt	Nur INTERNAL Recycling-Material verwendet			≥ 20%



TECHNISCHES DATENBLATT

Ausgabe 10/2024

ABMESSUNGEN

FORMAT		PRISTINE [SGHBC(-)]	FUSE [SGMPC(-)]
		Fischgrät	Mittelgroße Planke
Breite	ISO 24342:2018-11	129 mm	228,6 mm
Länge	ISO 24342:2018-11	740 mm	1500 mm
Anzahl der Paneele pro Packung		48	12
m² pro Packung		4,582 m²	4,115 m²
Gewicht pro Packung		21,1 kg	19,0 kg
Fasen		Pressed bevel	Pressed bevel

FORMAT		LIV [SGSPC(-)]	BLUSH [SGTC(-)]
		Schmale Planke	Quadratische Fliese
Breite	ISO 24342:2018-11	184,15 mm	609,6 mm
Länge	ISO 24342:2018-11	1219,20 mm	609,6 mm
Anzahl der Paneele pro Packung		20	12
m² pro Packung		4,490 m²	4,459 m²
Gewicht pro Packung		20,7 kg	20,8 kg
Fasen		Modern bevel	Modern bevel

Gesamtgewicht per Verpackungseinheit	EN ISO 23997:2012-02	4500 g/m² [-10%; +13%]	
Gesamtstärke	ISO 24346:2006-10	2,5 mm	
Deckschicht	EN ISO 24340:2012-02	0,55 mm	
Veredelung		Scratch Guard technology®	

WERKSGARANTIE

	METHODE	PARAMETER	WERTE
Beanspruchungsklasse	EN ISO 10874		Klasse 23 - 33
Produktnorm	EN ISO 10582:2018-01 (EN 16511)		
CE - fußboden	EN 14041:2004+AC:2005+AC:2006	Notifizierte Stelle	NB 2401 - CRET
UKCA - fußboden	EN 14041:2004+AC:2005+AC:2006	Approved body	AB 0321 - Satra UK
CE - wand	EN 15102:2007+A1:2011	Notifizierte Stelle	NB 0493 - Centexbel
UKCA - wand	EN 15102:2007+A1:2011	Approved body	AB 8515 - Centexbel International Ltd.
Garantie	Fußboden	Wohnzwecke	Siehe Garantiebedingungen
		Gewerbliche Nutzung	Siehe Garantiebedingungen
		Wand	Siehe Garantiebedingungen
			Lebenslang
			10 Jahre - auf Anfrage bis 15 Jahre
			10 év
			0 Jahre - auf Anfrage bis 5 Jahre

ALLGEMEINE ANGABEN

	METHODE	PARAMETER	NORMANFORDERUNGEN	WERTE
Geradlinigkeit und Rechtwinkligkeit	EN ISO 24342:2018-11		≤400mm: ≤0,25 mm >400mm: ≤0,35mm	OK
Nutzschicht	EN ISO 10582:2018-01		Type 1	OK
Abriebbeständigkeit	EN 13329 - Annex E			≥ 2000 Zyklen
Schlagfestigkeit	EN 13329 - Annex F			≥ 1600 mm
Kratzbeständigkeit	EN 16094:2021-06		≤ MSR-A2	≤ MSR-A1
			≤ MSR-B2	≤ MSR-B2
Bürostühle	ISO 4918:2016-03	25000 Zyklen		Keine Delamination, keine Störung
Möbelfußverschiebung	EN ISO 16581:2019-06	Fuß 0,1 mm / 32 kg		Keine sichtbaren Schäden
Eindruck	EN ISO 24343-1:2012-01		≤ 0,1 mm	≤ 0,05 mm
Maßänderung	EN ISO 23999:2021-11	6 Stunden bei 80°C	≤ 0,25 %	OK
Schüsselung	EN ISO 23999:2021-11		≤ 2 mm	OK
Lichtechtheit	ISO 105-B02:2014-09	Blau Referenz	Klasse ≥ 6	OK
Trittschalldämmung	ISO 717-2	Trittschallverringerung	Fest verklebt	ΔL _w = 3 dB
			Auf einer Flex Pro Unterlage	ΔL _w = 11 dB
Fußbodenheizung		Geeignet für alle standardisierten Warmwasser-Fußbodenheizungen in zementären Untergründen. Nur bedingt geeignet für elektrische oder alternative Fußbodenheizungen. Maximale Temperatur ≤ 27°C in den Belagrücken einwirkend. Bitte beachten Sie die Verlegeempfehlung.		

UMWELT, SICHERHEIT UND GESUNDHEIT

	METHODE	PARAMETER	NORMANFORDERUNGEN	WERTE
AFFSET				A+
Floorscore				SCS-FS-09789
Finnish Building Emission			M1:Sehr emissionsarm, geruchlos	OK
Formaldehydemission	EN 717-1:2004-10	Kein Formaldehyd während der Produktion zugefi E1 ($\leq 0,124 \text{ mg/m}^3$)		< Nachweisgrenze
TVOC 28 Tage	ISO 16000 part 9-6	AgBB-Anforderung nach 28 Tagen $<1000 \mu\text{g} / \text{m}^3$		< 100 $\mu\text{g/m}^3$
Brandklasse - fußboden	EN 13501-1:2018			Bfl-s1
Brandklasse - wand	EN 13501-1:2018			D-s3,d0
Wärmewiderstand	EN 12667:2001-01	Fest verklebt Auf einer Flex Pro Unterlage		0,01 $\text{m}^2 \text{K/W}$ 0,02 $\text{m}^2 \text{K/W}$
Rutschfestigkeit	EN 13893:2002-11 EN 16165:2021-10 Annex B EN 16165:2021 - Annex C (UKSRG) UNE-EN 16165:2021 - Annex C Anexo Nacional A (ES)	Trocken Nass Trocken	$\mu \geq 0,30$ PTV ₉₆ PTV ₅₇ PTV ₉₆	DS R10 Niedriges Rutschpotential (PTV96 ≥ 36) PTV ₅₇ ≥ 40 PTV ₉₆ ≥ 59
Inhalt	Nehéz fémek+ólom/kadmium			NICHT vorhanden
Gefährliche Stoffe	Karzinogene, mutagene oder reprotoxische Stoffe Klasse 1A und 1B (Kandidatenliste)			NICHT vorhanden
REACH	Regulation (EC)			Konform
Weichmacher	Phthalatfreie Weichmacher			OK



*information sur le niveau d'émission de substances volatiles dans l'air intérieur, présent sur un étiquette par évaluation, sur une échelle de classe allant de A+ (très faible émission) à C (forte émission).

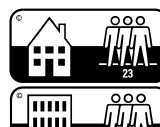


CERTIFIED BY
SCS Global Services



ISO 10582:2018

EN 14041:2004 / AC:2006
Heterogeneous PVC Floorcoverings
ISO 10582:2018



ISO 10582:2018

EN 14041:2004 / AC:2006
Heterogeneous PVC Floorcoverings
ISO 10582:2018

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial
Registration number REACH : Not applicable (article)
Product type REACH : Article

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses

Vinyl flooring

1.2.2 Uses advised against

No uses advised against

1.3. Details of the supplier of the Product Safety Information Sheet:

Supplier of the Product Safety Information Sheet

UNILIN Group
Ooigemstraat 3
B-8710 Wielsbeke-Ooigem
☎ +32 56 67 52 11
Technical.services@unilin.com

all brands produced and distributed by Unilin Group

1.4. Emergency telephone number

During business hours, 9:00-16:00 (CET) :
+32 56 67 52 11

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

2.2. Label elements

Labelling does not apply to articles

2.3. Other hazards

During processing dust may be released for which exposure limits are set out in the community

SECTION 3: Composition/information on ingredients

This article does not contain any notifiable substances

This article does not contain a substance of very high concern (SVHC) in accordance with Article 59(1) of Regulation (EC) No 1907/2006 at a concentration above 0,1 % (w/w)

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

If you feel unwell, consult a doctor/medical service.

After inhalation:

Not applicable. Measures apply only in case of excessive dust production when processing the material. Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

After skin contact:

Not applicable.

After eye contact:

Not applicable. Measures apply only in case of excessive dust production when processing the material. Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

After ingestion:

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

4.2.1 Acute symptoms

After inhalation:

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

No effects known.

After skin contact:

No effects known.

After eye contact:

No effects known.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

4.3. Indication of any immediate medical attention and special treatment needed

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Class A foam extinguisher, Water (quick-acting extinguisher, reel).

Major fire: Water, Class A foam.

5.1.2 Unsuitable extinguishing media:

Small fire: Quick-acting BC powder extinguisher, Quick-acting CO2 extinguisher.

5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide).

5.3. Advice for firefighters

5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See section 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 8.2

6.2. Environmental precautions

No data available

6.3. Methods and material for containment and cleaning up

Pick-up the material.

6.4. Reference to other sections

See section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Store in a dry area. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

Not applicable

Publication date: 2022-09-28

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

Belgium

Chlorure de polyvinyle (fraction alvéolaire)	Time-weighted average exposure limit 8 h	1 mg/m ³
Verres (fibres ou poussières de)	Time-weighted average exposure limit 8 h	10 mg/m ³

France

Fibres de verre	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	1 fibers/cm ³
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Austria

Polyvinylchlorid (Alveolarstaub)	Tagesmittelwert (MAK)	5 mg/m ³
	Kurzzeitwert 60(Miw) 2x (MAK)	10 mg/m ³

UK

MMMF (Machine-made mineral fibre) (except for refraction ceramic fibres and special purpose fibres)	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	2 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	5 mg/m ³
Polyvinyl chloride inhalable dust	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	10 mg/m ³
Polyvinyl chloride respirable dust	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	4 mg/m ³

USA (TLV-ACGIH)

Polyvinyl chloride	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	1 mg/m ³ (R)
Synthetic vitreous fibers: Continuous filam glass fibers	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	1 fibers/cm ³ (F)
Synthetic vitreous fibers: Glass wool fibers	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	1 fibers/cm ³ (F)

(R): Respirable fraction

(F): Respirable fibers: length > 5 µm; aspect ratio ≥ 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

If applicable and available it will be listed below.

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 Threshold values

If applicable and available it will be listed below.

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

8.2.1 Appropriate engineering controls

Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air regularly. Work under local exhaust/ventilation.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

a) Respiratory protection:

Dust production: dust mask with filter type P1.

b) Hand protection:

Not required for normal conditions of use.

c) Eye protection:

Not required for normal conditions of use.

d) Skin protection:

Not required for normal conditions of use.

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Flexible solid material
Odour	Almost odourless
Odour threshold	No data available in the literature
Colour	Variable in colour, depending on the composition

Publication date: 2022-09-28

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

Particle size	No data available in the literature
Explosion limits	No data available in the literature
Flammability	Not classified as flammable
Log Kow	Not applicable (article)
Dynamic viscosity	Not applicable (solid)
Kinematic viscosity	Not applicable (solid)
Melting point	No data available in the literature
Boiling point	No data available in the literature
Relative vapour density	Not applicable (solid)
Vapour pressure	No data available in the literature
Solubility	Water : insoluble
Relative density	1.7 - 2.0
Absolute density	1700 kg/m ³ - 2000 kg/m ³
Decomposition temperature	No data available in the literature
Auto-ignition temperature	No data available in the literature
Flash point	Not applicable (solid)
pH	No data available in the literature

9.2. Other information

Softening point	80 °C
Evaporation rate	Not applicable (solid)

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Precautionary measures

Avoid raising dust. Keep away from naked flames/heat.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Test results

Acute toxicity

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

No (test)data available

Corrosion/irritation

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

No (test)data available

Respiratory or skin sensitisation

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

No (test)data available

Specific target organ toxicity

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

No (test)data available

Mutagenicity (in vitro)

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

No (test)data available

Mutagenicity (in vivo)

Publication date: 2022-09-28

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

No (test)data available

Carcinogenicity

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

No (test)data available

Reproductive toxicity

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

No (test)data available

Toxicity other effects

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

No (test)data available

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

No (test)data available

12.2. Persistence and degradability

Water

Biodegradability in water: no data available

12.3. Bioaccumulative potential

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (article)			

Conclusion

No bioaccumulation data available

12.4. Mobility in soil

No (test)data on mobility of the component(s) available

12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.7. Other adverse effects

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997. The waste code must be assigned by the user, preferably in consultation with the (environmental) authorities concerned.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

No data available

Publication date: 2022-09-28

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

SECTION 14: Transport information

Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

14.1. UN number	Transport	Not subject
14.2. UN proper shipping name		
14.3. Transport hazard class(es)		
Hazard identification number		
Class		
Classification code		
14.4. Packing group		
Packing group		
Labels		
14.5. Environmental hazards		
Environmentally hazardous substance mark	no	
14.6. Special precautions for user		
Special provisions		
Limited quantities		
14.7. Maritime transport in bulk according to IMO instruments		
Annex II of MARPOL 73/78	Not applicable	

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
	No data available in the literature

National legislation Belgium

No data available

National legislation The Netherlands

Waterbezwaarlijkheid	Not applicable (article)
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National legislation France

Catégorie cancérigène	Fibres de verre; (2); Certains ou tous ces composées sont classés C1A, C1B ou C2.
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National legislation Germany

WGK	Not applicable (article)
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National legislation Austria

No data available

National legislation United Kingdom

No data available

Other relevant data

TLV - Carcinogen	Synthetic vitreous fibers: Continuous filam glass fibers; A4
	Synthetic vitreous fibers: Glass wool fibers; A3
	Polyvinyl chloride; A4

15.2. Chemical safety assessment

No chemical safety assessment is required.

SECTION 16: Other information

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
ATE	Acute Toxicity Estimate
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEC/NOAEL	No Observed Adverse Effect Concentration/No Observed Adverse Effect Level
NOEC/NOEL	No Observed Effect Concentration/No Observed Effect Level
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration

Publication date: 2022-09-28

Vinyl: Unilin, Quick-Step, Pergo, IVC Commercial

STP
vPvB

Sludge Treatment Process
very Persistent & very Bioaccumulative

The information in this Product Safety Information Sheet informs on the properties of certain substances, preparations or mixtures incorporated in the article. The Product Safety Information Sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this Product Safety Information Sheet does not release the user from the obligation to take all measures dictated by common sense, regulations, the guidelines of the manufacturer and recommendations or which are necessary and/or useful based on the real applicable circumstances. The Product Safety Information Sheet constitutes merely of guidelines and recommendations. The information in this Product Safety Information Sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. New Product Safety Information Sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the Product Safety Information Sheet, the information does not apply to other, even similar products. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This Product Safety Information Sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this Product Safety Information Sheet is subject to the licence and liability limiting conditions as stated in the agreement between BIG and the manufacturer of this product or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

Publication date: 2022-09-28

Lenzburg, 14.03.2025

Betreff: Stellungnahme u.a. zur Erfüllung der EU-Taxonomie Verordnung von Unilin-Fußbodenbelägen

Sehr geehrte Damen und Herren,

generell achten wir bei unseren Produkten auf das Emissionsverhalten und halten die strengen Anforderungen des AgBB-Bewertungsschemas (Ausschuss zur gesundheitlichen Bewertung von Bauprodukten) Stand Juni 2021 ein. Die dort zugrunde gelegte NIK-Liste (Niedrigste Interessierende Konzentration), in der jeder Einzelstoff auf Grund seiner toxikologischen Bedeutung berücksichtigt wird, ist die aktuelle Bewertungsgrundlage. Das Unterschreiten des AgBB-Bewertungsschemas ist eine Grundvoraussetzung für die Verwendung in Innenräumen, welche für den dauerhaften Aufenthalt von Personen gedacht sind. Der Urheber für dieses Bewertungsschema ist das deutsche Umweltbundesamt mit Sitz in Dessau-Roßlau.

Darüber hinaus halten wir auch die Anforderung der DGNB (ENV1.2 QS4), sowie die Anforderungen der Schadstoffvermeidung in Baumaterialien nach Anhangdokument 313 ein. Dadurch sind die Anforderungen unserer Bodenbeläge für den Einsatz in DGNB- und QNG-Zertifizierte Gebäude eingehalten.

Um für einen wirksamen Verbraucherschutz zu sorgen hat die Europäische Union mit der Verordnung (EG) Nr. 1907/2006 (REACH-Verordnung) eine in ganz Europa geltende gesetzliche Regelung erlassen. Dieser Verordnung müssen sich zwingend alle Hersteller und Importeure unterwerfen. Es bedeutet, dass die zur Herstellung verwendeten Stoffe und Chemikalien vor dem Importieren und/oder dem Verarbeiten registriert werden müssen. Diese wiederum müssen durch entsprechende Studien oder Tests ihre Unbedenklichkeit nachgewiesen haben. Wir erklären Ihnen hiermit, dass Unilin ausschließlich Rohstoffe verarbeitet, die REACH-Verordnung 1907/2006 unterliegen und entsprechen.

Der Artikel 33 dieser REACH-Verordnung regelt die Informationspflicht innerhalb der Lieferkette und gegenüber dem Verbraucher. Dabei geht es darum ob in einem Produkt eine besorgniserregende Substanz (SVHC) enthalten ist oder nicht. Diese muss auf Anfrage benannt werden. Dazu erklären wir, dass unsere Fußbodenbeläge keine besorgniserregenden Substanzen (SVHC) eingesetzt werden. Die Anforderungen am Gehalt an Formaldehyd sind nach EU-Taxonomie Verordnung $< 0,06 \text{ mg/m}^3$ und an krebserregenden Stoffen $< 0,001 \text{ mg/m}^3$ definiert. Ebenfalls halten wir CMR-Stoffe der Kategorien 1A und 1B $< 0,1 \%$ ein und Chlorparaffine (SCCPs + MCCPs + LCCPs) sowie Blei und Zinnverbindungen sind kein Bestandteil unserer Formulierungen. Auch die Emissionsanforderungen der DE-UZ120 halten wir deutlich ein.


Benjamin Albus – Technischer Leiter DACH

Unilin Swiss GmbH – Tannengutweg 10 – 5600 Lenzburg – Switzerland

ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	Unilin BV, division flooring
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-UNI-20250275-IBI1-EN
Issue date	20/06/2025
Valid to	19/06/2030

Dryback Luxury Vinyl Tiles (LVT) Unilin B.V. Division Flooring

www.ibu-epd.com | <https://epd-online.com>



1. General Information

Unilin B.V. Division Flooring

Programme holder

IBU – Institut Bauen und Umwelt e.V.
Hegelplatz 1
10117 Berlin
Germany

Declaration number

EPD-UNI-20250275-IBI1-EN

This declaration is based on the product category rules:

Floor coverings, 01/08/2021
(PCR checked and approved by the SVR)

Issue date

20/06/2025

Valid to

19/06/2030



Dipl.-Ing. Hans Peters
(Chairman of Institut Bauen und Umwelt e.V.)



Florian Pronold
(Managing Director Institut Bauen und Umwelt e.V.)

Dryback Luxury Vinyl Tiles (LVT)

Owner of the declaration

Unilin BV, division flooring
Ooigemstraat 3
8710 Wielsbeke
Belgium

Declared product / declared unit

1 m² of floor between 2- 2,5 mm thickness dryback PVC Luxury Vinyl Tiles (LVT) floor covering

Scope:

In this EPD flexible dryback Luxury Vinyl Tiles (LVT) floor coverings, between 2 and 2,5 mm, according to EN 16810:2017 Resilient, textile and laminate floor coverings are declared.

The results are representative of production in UNILIN B.V. Division Flooring, Avelgem site (Belgium).

This EPD covers printed laminate polyvinyl chloride floor coverings produced by Unilin under following categories and brands:

Dryback products of 2,5mm thickness with 0,55 mm wearlayer:

- Moduleo Roots 55
- Moduleo Moods
- Design Floors Ultimo
- Design Floors Divino
- Vitality Essential
- Unilin LVT Flex Dryback 2,5mm/0,55mm

Dryback products of 2,35mm thickness with 0,4 mm wearlayer:

- Moduleo Roots 40
- Design Floors Electo
- Unilin LVT Flex Dryback 2,35mm/0,4mm

Dryback products of 2,00mm thickness with 0,30 mm wearlayer:

- Design Floors Primero
- Moduleo Urban Living
- Unilin LVT Flex Dryback 2,00mm/0,3mm

The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences. The EPD was created according to the specifications of EN 15804+A2. In the following, the standard will be simplified as EN 15804.

The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

The EPD was created according to the specifications of EN 15804+A2. In the following, the standard will be simplified as *EN 15804*.

Verification

The standard EN 15804 serves as the core PCR	
Independent verification of the declaration and data according to ISO 14025:2011	
☐	internally
☒	externally

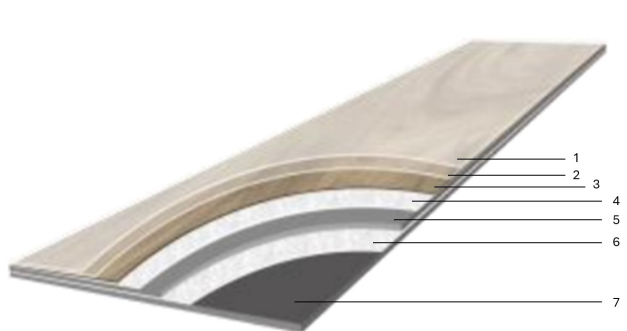


Mr Olivier Muller,
(Independent verifier)

2. Product

2.1 Product description/Product definition

Flexible vinyl floor coverings are made up of several layers. On the top side, there is a PVC decor layer (3) bonded to a glass fiber (4); topped with a transparent PVC wear-resistant contact surface coated with a PU lacquer for a mat aspect with an excellent stain and friction resistance (1+2). On the back side there is a core layer (5-7) made of 2 flexible PVC layers reinforced with unwoven glassfiber. (6) These layers are manufactured and laminated together with the other layers at Unilin's LVT plant in the Avelgem facility. The decorative PVC layer of vinyl floorcovering can be printed with any design and gives the floor its individual appearance.



For the placing on the market of the product in the European Union/European Free Trade Association (EU/EFTA) (with the exception of Switzerland) *Regulation (EU) No. 305/2011(CPR)* applies. The product needs a declaration of performance taking into consideration *EN 14041:2004 AC 2006 Resilient, textile and laminate floor coverings - Essential characteristics and the CE-marking*. For the application and use the respective national provisions apply.

2.2 Application

According to *EN ISO 10874* the area of application for resilient floor coverings is indicated by use classes. The declared product groups (2,5 mm/2,35 mm/2,0 mm) covers the use class 33 (heavy commercial use), class 32 (moderate commercial use), class 31 (light commercial use), respectively.

2.3 Technical Data

The technical specifications of the products within the scope of the EPD shall be listed, including the reference to the test methods/test standards for each specification.

For products with CE marking, the technical specifications must be specified in accordance with information in the declaration of performance. The properties relevant to the product should be specified in the table below. If no information is given for properties, an explanation must be given in the background report to the EPD as to why the property is not relevant to the product.

Constructional data

Name	Value	Unit
Product minimum thickness	2	mm
Product maximum thickness	2,5	mm
Product minimum mass	3360	g/m ²
Product maximum mass	4140	g/m ²
Product Form	Tiles and planks	-

- Performance data of the product in accordance with the declaration of performance with respect to its essential characteristics according to *EN 14041:2004 AC 2006 Resilient, textile and laminate floor coverings - Essential characteristics and the CE marking*.
- Voluntary data: The product complies with the requirements of the following standard, too *EN16810:2017 Resilient, textile and laminate floorcoverings*. For the application and use the respective national provisions apply

2.4 Delivery status

LVT floor covering is delivered in planks or tiles. Typical standard dimensions are as follows (length - width - thickness)

- 632 x 159 x 2,5 mm
- 1320 x 196 x 2,5 mm
- 1498 x 214 x 2,5 mm
- 493 x 493 x 2,5 mm
- 659 x 329 X 2,5 mm
- 986 x 493 x 2,5 mm
- 1320 x 196 x 2,35 mm
- 659 x 329 x 2,35mm
- 1320 x 196 x 2,0 mm
- 988 x 163 x 2,0 mm
- 659 x 329 x 2,0mm

2.5 Base materials/Ancillary materials

The product group has the following composition:

Name	Value	Unit
Mineral filler	47	%
PVC	34	%
Plasticizer & stabilizers	15	%
Others	4	%

This product contains substances listed in the *Candidate List of Substances of Very High Concern* for Authorization *REACH* (date: 27.06.2024) exceeding 0.1 percentage by mass: **NO**
This product contains other carcinogenic, mutagenic, reprotoxic (CMR) substances in categories 1A or 1B which are not on the candidate list, exceeding 0.1 percentage by mass: **NO**
Biocide products were added to this construction product or it has been treated with biocide products (this then concerns a treated product as defined by the (EU) *Ordinance on Biocide Products No. 528/2012*): **NO**

2.6 Manufacture

LVT dryback flooring is produced by calendering and laminating the different parts together. The material efficiency is 98% as all production waste are internally recycled as raw material. In production a certified *ISO9001* quality control system is in place.

2.7 Environment and health during manufacturing

The production conditions do not demand any special health protection measures over and beyond the legal requirements.

Water

Production uses river water for cooling. The use of water in the LVT flooring production process is negligible. Where water is needed, it is re-used in the internal water loop and eventually reinjected into the river after controlling quality and temperature.

Air

The constitutional valid regulations are observed.

Soil

There is no impact on soil. In production a certified *ISO 14001* environmental management system is in place.

2.8 Product processing/Installation

Unilin flexible dryback LVT floor coverings are generally installed using a floor adhesive. Another installation option is being adhered to the looselaid underlay Flexpro. Installation off-cuts are collected through our recycling program RECOVER.

2.9 Packaging

LVT tiles are packed together. The packs are protected using cardboard 6-sided boxes. The packaging cardboard is fully recyclable. The packs are palletized on wooden pallets using wood from a controlled origin. The pallets can be re-used (Euro pallets) or recycled as wood category 03 01 05 according to the *European Waste Catalogue*. The pallets are protected using a stretch film and PET straps which are both recyclable.

2.10 Condition of use

A Polyurethan-based lacquer is used for the production of the flooring panels. After exposure to a strong UV light under anaerobic conditions, this coating is 3D crosslinked by an irreversible reaction and completely closing the flooring surface. Under normal conditions, the coating is chemically stable and mechanically firmly bonded to the PVC wearlayer.

2.11 Environment and health during use

Environmental protection

When the products are used as designated and according to the current state of knowledge, there are no hazards for water, air and soil.

Health protection

When used normally and in accordance with the designated purpose, no health risks or restrictions are to be anticipated by UNILIN LVT floor coverings. This is in line with the current state of knowledge.

2.12 Reference service life

The *BBSR* gives a general useful life of 20 years for floor coverings of component group 352.711 (Linoleum, Laminat, PVC, Kunststoff Parkett, Kork, Kautschuk, Sporthallenbeläge). Due to the comparatively high resistance of the LVT floorings, Unilin grants an additional warranty (based on the floor owner life according to the manufacturer's warranty conditions) for the declared product. In order to increase the life duration of the floorcovering, the manufacturer's instructions concerning warranty and care must be observed, available for download at www.unilin.com/en/flooring.

The use stage is declared in this EPD for a one year usage.

Depending on the application based on *EN ISO 10874*, the technical service life recommended by the manufacturer and

the anticipated strain on the floor by customers, the case specific useful life can be established. The effects of Module B2 need to be calculated on the basis of this useful life in order to obtain the overall environmental impacts.

2.13 Extraordinary effects

Fire

The reaction to fire is determined according to *EN 13501-1*. The class for LVT floors produced by UNILIN B.V. Division Flooring, in combination with all underlays of the sales program is Bfl-s1 (Combustible materials – very limited contribution to fire).

Fire protection

Name	Value
Building material class	Bfl
Smoke gas development	s1

Water

In case of a leak or a flood where the flooring has been soaked the flooring no visible damage is expected. This is because the product is primarily made of PVC, a material that does not absorb water or degrade upon exposure to moisture.

Mechanical destruction

Small damages in the flooring surface can be repaired by using colored solvent-free melt waxes. Scratches in the transparent wear layer can be repaired with an adapted new coating 1 or 2 compound following the manufacturer's instructions. In case of more severe damage the damaged panels can be replaced. Procedures to repair or replace a damaged plank are available on request. The damaged panels go into the normal end-of-life treatment.

2.14 Re-use phase

End of life dryback LVT floor coverings shall be thermally valorized if possible.

2.15 Disposal

Post-installation and post-consumer flooring panels are considered PVC waste. The *European Waste Code EWC* is 070213. It can be disposed of in any regulated municipal waste collection point in a combustible waste container. Unilin offers a take-back program named Recover to enable circularity of PVC flooring.

Please contact your local Unilin dealer to check the availability of this Recover program in your country.

2.16 Further information

All information about the product composition, technical performance, instructions for installation and maintenance, precautionary instructions for use, CE marking and relevant DOP (declaration of performance) documents, are available either in the packs or can be found on the homepage www.unilin.com/en/flooring or can be requested at Unilin B.V. Division Flooring info@unilin.com

3. LCA: Calculation rules

3.1 Declared Unit

1 m² of floor with 2,5 mm dryback PVC Luxury Vinyl Tiles (LVT) floor covering

Declared unit and mass reference

Name	Value	Unit
Declared unit	1	m ²
Grammage	4.14	kg/m ²
Layer thickness	0.0025	m

3.2 System boundary

Type of EPD according to *EN 15804+A2*: cradle to gate with options, modules C1–C4, and module D (A1–A3 + C + D and additional modules A4, A5, B2).

Modules A1-A3 include processes that provide materials and energy input for the system, manufacturing and transport processes up to the factory gate, as well as waste processing. Module A4 includes transport of the floor covering to the place of installation. A4 data are based on an average sales data for global deliveries.

Module A5 includes the production of offcuts for the installation of the floor covering, and recycling of offcuts and European end-of-life scenarios for packaging material.

Module B2 includes provision of cleaning agent, energy and water consumption for the cleaning of the floor covering. The LCA results in this EPD are declared for a one-year usage. Module C2 includes transportation of the postconsumer waste to waste processing. End of life scenarios are declared for:

- 100% incineration in a waste incineration plant (Scenario 1, C4/1)
- 100% landfill (Scenario 2, C4/2)

Module D includes potential benefits from all net flows given in module A5 and C3/C4 that leave the product boundary system after having passed the end-of-waste state in the form of recovery and/or recycling potentials. Module D is declared for each scenario separately (D/1 and D/2)

3.3 Estimates and assumptions

No additional estimates or assumptions had to be made beyond the information stated in clauses 3 and 4.

3.4 Cut-off criteria

In the assessment, all available data from the production process are considered, i.e. all raw materials used, utilized thermal energy, and electric power consumption using the best available LCI datasets. Thus material and energy flows contributing less than 1% of mass or energy are also considered. No flows were cut-off that are known to have significant environmental impacts

3.5 Background data

Used background data comes from *ecoinvent* database version 3.11 from 2025. It has been selected to be representative of processes geographic location. The background data for A1-A3

heat and electricity was listed: electricity, GWP = 0.057 kg CO₂-eq/MJ and heat, GWP = 0.278 kg CO₂-eq/kWh.

3.6 Data quality

Primary data refer to the year 2023. The data of the foreground processes is based on input-output analyses at the Belgian production site. The primary data collection was done thoroughly, all relevant flows were considered.

3.7 Period under review

The period under review for primary data is 2023.

3.8 Geographic Representativeness

Land or region, in which the declared product system is manufactured, used or handled at the end of the product's lifespan: Global

3.9 Allocation

The overall production of UNILIN comprises further products besides the products considered in this study. Data for thermal and electrical energy as well as auxiliary material refer to the declared product. During data collection the allocation is done via mass (kg). Specific information on allocation within the background data is given in the *ecoinvent* documentation.

3.10 Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, respectively the product-specific characteristics of performance, are taken into account. Background database is as described in chapter 3.5.

4. LCA: Scenarios and additional technical information

Characteristic product properties of biogenic carbon

Information on describing the biogenic carbon content at factory gate

Name	Value	Unit
Biogenic carbon content in product	-	kg C
Biogenic carbon content in accompanying packaging	0.196	kg C

Note: 1 kg of biogenic carbon is equivalent to 44/12 kg of CO₂.

The following technical information is a basis for the declared modules. Scenarios correspond to the European production and Global consumption.

Transport to the construction site (A4)

Name	Value	Unit
Transport distance by truck	740	km
Transport distance by boat	714	km
Capacity utilisation (including empty runs)	36	%

Installation in the building (A5)

Name	Value	Unit
Auxiliary	0.25	kg
Product installation losses	3	%
Product packaging waste	0.44	kg

Maintenance (B2)

Name	Value	Unit
Water consumption	1.33	kg/m ² /year
Detergent	0.0133	kg/m ² /year
Electricity consumption (Global mix)	0.0103	kWh/m ² /year

Reference service life

Name	Value	Unit
Life Span (according to BBSR)	20	a

End of Life (C1-C4)

Name	Value	Unit
Energy recovery from waste (Scenario 1)	4.14	kg
Landfilling (Scenario 2)	4.14	kg

Energy recovery from product waste is assumed in a municipal waste incineration plant with an energy efficiency of < 60%. In line with *EN 15804*, this is therefore declared as part of module C4.

5. LCA: Results

The results refer to LVT thickness of 2,5 mm (4.14kg/m²). The information on maintenance is declared per year.

1. Scenario 1: 100% energy recovery from waste (C4/1 & D/1)
2. Scenario 2: 100% landfill (C4/2 & D/2)

Dryback Luxury Vinyl Floor Coverings are available in different thicknesses. In order to enable the user of the EPD to calculate the results for different thicknesses and use classes conversion tables were included under the results of the standard declared product (thickness 2,5 mm). For A1-A3, A4, A5, B2, C3 and D the LCA results of the declared product (thickness 2,5 mm) can be multiplied by the factors in the conversion tables to get the product impact for the two additional product groups.

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE OR INDICATOR NOT DECLARED; MNR = MODULE NOT RELEVANT)

Product stage			Construction process stage		Use stage							End of life stage				Benefits and loads beyond the system boundaries
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	MND	X	MNR	MNR	MNR	MND	MND	MND	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 m² Dryback Luxury Vinyl Tiles (LVT)

Parameter	Unit	A1-A3	A4	A5	B2	C2	C3	C4/1	C4/2	D/1	D/2
GWP-total	kg CO ₂ eq	6.02E+00	6.25E-01	1.52E+00	2.55E-02	3.87E-02	0	5.32E+00	2.77E-01	-2.15E+00	-2.51E-01
GWP-fossil	kg CO ₂ eq	6.65E+00	6.25E-01	7.83E-01	2.23E-02	3.86E-02	0	5.32E+00	2.77E-01	-2.15E+00	-2.5E-01
GWP-biogenic	kg CO ₂ eq	-6.38E-01	1.32E-04	7.34E-01	5.16E-05	8.25E-06	0	9.51E-04	1.62E-05	-2.68E-03	-8.18E-04
GWP-luluc	kg CO ₂ eq	1.38E-02	2.19E-04	7.71E-04	3.16E-03	1.31E-05	0	2.66E-04	9.95E-06	-2.57E-03	-3.47E-04
ODP	kg CFC11 eq	1.85E-06	3.24E-10	5.61E-08	2.1E-10	2.03E-11	0	5.74E-09	3.91E-11	-5.14E-08	-5.06E-08
AP	mol H ⁺ eq	7.29E-01	2.19E-03	2.41E-02	1.33E-04	8.29E-05	0	2.14E-03	2.84E-04	-6.52E-03	-8.62E-04
EP-freshwater	kg P eq	1.85E-03	4.23E-05	2.05E-04	1.01E-05	2.68E-06	0	1.9E-04	3.37E-06	-5.67E-04	-7.23E-05
EP-marine	kg N eq	2.91E-01	5.36E-04	9.13E-03	5.8E-05	2E-05	0	7.46E-04	1.59E-03	-1.41E-03	-1.94E-04
EP-terrestrial	mol N eq	2.05E+00	5.86E-03	6.55E-02	2.9E-04	2.16E-04	0	6.3E-03	1.26E-03	-1.41E-02	-1.83E-03
POCP	kg NMVOC eq	7.75E-01	2.71E-03	2.56E-02	8.65E-05	1.32E-04	0	2.21E-03	5.15E-04	-5.77E-03	-9.31E-04
ADPE	kg Sb eq	9.99E-05	2.12E-06	9.51E-06	2.46E-07	1.36E-07	0	4.75E-06	9.16E-08	-3.81E-06	-1.86E-06
ADPF	MJ	1.64E+02	8.81E+00	1.7E+01	3.16E-01	5.49E-01	0	6.1E+00	9.79E-01	-3.23E+01	-5.01E+00
WDP	m ³ world eq deprived	3.66E+00	3.45E-02	3.79E-01	6.31E-02	2.19E-03	0	3.11E-01	-2.13E-02	-2.64E-01	-1.04E-01

GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources; WDP = Water (user) deprivation potential)

RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1 m² Dryback Luxury Vinyl Tiles (LVT)

Parameter	Unit	A1-A3	A4	A5	B2	C2	C3	C4/1	C4/2	D/1	D/2
PERE	MJ	1.25E+01	1.42E-01	1.07E+00	1.45E-01	9.06E-03	0	8.33E-01	2.52E-02	-2.2E+00	-3.86E-01
PERM	MJ	4.74E+00	0	-4.55E+00	0	0	0	0	0	3.58E-01	3.58E-01
PERT	MJ	1.72E+01	1.42E-01	-3.48E+00	1.45E-01	9.06E-03	0	8.33E-01	2.52E-02	-1.84E+00	-2.83E-02
PENRE	MJ	1.1E+02	8.81E+00	1.7E+01	2.11E-01	5.49E-01	0	6.1E+00	9.79E-01	-3.23E+01	-5.01E+00
PENRM	MJ	5.3E+01	0	-5.02E-02	1.09E-01	0	0	-5.24E+00	0	-1.44E-02	-1.44E-02
PENRT	MJ	1.63E+02	8.81E+00	1.7E+01	3.2E-01	5.49E-01	0	-4.63E+01	9.79E-01	-3.23E+01	-5.02E+00
SM	kg	2.51E-01	0	7.53E-03	0	0	0	0	0	2.02E-01	2.02E-01
RSF	MJ	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0
FW	m ³	9.63E-02	1.09E-03	9.79E-03	1.6E-03	6.94E-05	0	1.34E-01	-1.86E-02	-9.26E-03	-2.89E-03

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

RESULTS OF THE LCA - WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2: 1 m² Dryback Luxury Vinyl Tiles (LVT)

Parameter	Unit	A1-A3	A4	A5	B2	C2	C3	C4/1	C4/2	D/1	D/2
HWD	kg	3.71E-02	2.68E-04	3.7E-03	2.14E-05	1.71E-05	0	3.48E-01	9.71E-05	-1.2E-03	-5.73E-04
NHWD	kg	3.98E+00	5.07E-01	4.45E-01	1.89E-02	3.28E-02	0	7.59E-01	4.15E+00	-1.01E+00	-1.16E-01
RWD	kg	3.75E-04	2.55E-06	2.45E-05	7.51E-07	1.64E-07	0	1.29E-05	3.55E-07	-4.02E-05	-6.04E-06
CRU	kg	0	0	0	0	0	0	0	0	0	0
MFR	kg	3.32E-01	0	3.85E-01	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0	0	0	0
EEE	MJ	9.41E-02	ND	3.03E-01	ND	ND	0	5.06E+00	ND	ND	ND
EET	MJ	1.94E-01	ND	6.08E-01	ND	ND	0	1.18E+01	ND	ND	ND

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy

RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional: 1 m² Dryback Luxury Vinyl Tiles (LVT)

Parameter	Unit	A1-A3	A4	A5	B2	C2	C3	C4/1	C4/2	D/1	D/2
PM	Disease incidence	3.94E-06	3.45E-06	4.54E-08	1.29E-07	1.38E-09	0	1.59E-08	6.74E-09	-5.82E-08	-8.24E-09
IR	kBq U235 eq	2.09E+00	9.27E-01	1.04E-02	9.73E-02	2.99E-03	0	5.09E-02	1.54E-03	-1.64E-01	-2.38E-02
ETP-fw	CTUe	3.4E+02	4.45E+00	1.16E+00	4.9E+00	1.71E-01	0	2.68E+02	2.59E+01	-3.99E+00	-1.12E+00
HTP-c	CTUh	1.44E-08	8.3E-10	1.06E-10	3.49E-10	1.21E-11	0	1.18E-09	1.07E-11	-4.26E-10	-1.84E-10
HTP-nc	CTUh	1.77E-07	1.78E-08	5.39E-09	3.33E-08	4.12E-10	0	1.52E-08	8.34E-10	-9.07E-09	-1.88E-09
SQP	SQP	8.17E+01	4.01E+01	5.09E+00	3.32E+00	3.07E-01	0	2.27E+00	2.35E+00	-3.24E+00	-1.09E+00

PM = Potential incidence of disease due to PM emissions; IR = Potential Human exposure efficiency relative to U235; ETP-fw = Potential comparative Toxic Unit for ecosystems; HTP-c = Potential comparative Toxic Unit for humans (cancerogenic); HTP-nc = Potential comparative Toxic Unit for humans (not cancerogenic); SQP = Potential soil quality index

Disclaimer 1 – for the indicator 'Potential Human exposure efficiency relative to U235'. This impact category deals mainly with the eventual impact of low-dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure or radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, radon and from some construction materials is also not measured by this indicator.

Disclaimer 2 – for the indicators 'abiotic depletion potential for non-fossil resources', 'abiotic depletion potential for fossil resources', 'water (user) deprivation potential, deprivation-weighted water consumption', 'potential comparative toxic unit for ecosystems', 'potential comparative toxic unit for humans – cancerogenic', 'Potential comparative toxic unit for humans - not cancerogenic', 'potential soil quality index'. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high as there is limited experience with the indicator.

Extrapolation table - 2,35mm/0,4mm wearlayer

Indicator	A1-A3	A4	A5	B2	C2	C4/1	C4/2	D/1	D/2
GWP-total	0,91	0,99	0,99	1,00	0,96	0,93	0,95	0,92	0,98
GWP - fossil	0,92	0,99	0,98	1,00	0,96	0,93	0,95	0,92	0,98
GWP - biogenic	1,01	0,97	1,00	1,00	0,96	0,91	0,95	0,94	0,99
GWP- luluc	0,97	1,03	0,99	1,00	0,96	0,91	0,95	0,92	0,99
ODP	0,90	0,96	0,91	1,00	0,96	0,91	0,95	0,96	0,96
AP	0,99	1,60	1,00	1,00	0,96	0,91	0,95	0,92	0,98
EP-freshwater	0,92	0,95	0,98	1,00	0,96	0,91	0,95	0,92	0,98
EP-marine	0,99	1,62	1,00	1,00	0,96	0,91	0,95	0,92	0,98
EP - terrestrial	0,99	1,63	1,00	1,00	0,96	0,91	0,95	0,92	0,98
POCP	0,99	1,33	1,00	1,00	0,96	0,91	0,95	0,92	0,97
ADPE	0,94	0,93	0,98	1,00	0,96	0,91	0,95	0,94	0,96
ADPF	0,92	0,98	0,98	1,00	0,96	0,91	0,95	0,92	0,97
WDP	0,91	0,95	0,98	1,00	0,96	0,91	0,95	0,93	0,97
PERE	0,94	0,94	0,98	1,00	0,96	0,91	0,95	0,93	0,98
PERM	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
PERT	0,96	0,94	1,01	1,00	0,96	0,91	0,95	0,91	0,78
PENRE	0,93	0,98	0,98	1,00	0,96	0,91	0,95	0,92	0,97
PENRM	0,90	1,00	1,00	1,00	1,00	0,91	1,00	1,00	1,00
PENRT	0,92	0,98	0,98	1,00	0,96	0,91	0,95	0,92	0,97
SM	1,00	1,00	1,00	1,00	1,00	1,00	1,00	0,98	0,98
RSF	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
NRSF	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
FW	0,91	0,94	0,98	1,00	0,96	0,91	0,95	0,93	0,97
HWD	0,94	0,94	0,98	1,00	0,96	0,91	0,95	0,95	0,98
NHWD	0,94	0,91	0,98	1,00	0,96	0,91	0,95	0,92	0,98
RWD	0,93	0,93	0,97	1,00	0,96	0,91	0,95	0,92	0,97
CRU	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
MFR	0,96	1,00	0,98	1,00	1,00	1,00	1,00	1,00	1,00
MER	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
EEE	0,95	1,00	1,00	1,00	1,00	0,91	1,00	1,00	1,00
EET	0,95	1,00	1,00	1,00	1,00	0,91	1,00	1,00	1,00
PM	0,91	0,01	2,84	0,01	2,00	0,92	0,95	0,92	0,98
IR	0,67	0,01	9,14	0,03	0,21	0,91	0,95	0,92	0,98
ETF-fw	0,10	0,25	4,15	0,03	0,41	0,91	0,95	0,93	0,97
HTP-c	0,44	0,13	3,13	0,03	0,51	0,91	0,95	0,93	0,97
HTP-nc	0,39	0,28	6,14	0,01	0,80	0,91	0,95	0,92	0,97
SQP	0,68	0,12	0,64	0,09	1,03	0,91	0,95	0,94	0,99

Extrapolation table - 2,00mm/0,3mm wearlayer

Indicator	A1-A3	A4	A5	B2	C2	C4/1	C4/2	D/1	D/2
GWP-total	0,78	0,78	0,97	1,00	0,81	0,79	0,81	0,74	0,90
GWP - fossil	0,80	0,78	0,94	1,00	0,81	0,79	0,81	0,74	0,90
GWP - biogenic	1,02	0,78	1,00	1,00	0,81	0,78	0,81	0,77	0,97
GWP- luluc	0,93	0,78	0,96	1,00	0,81	0,78	0,81	0,71	0,95
ODP	0,76	0,78	0,76	1,00	0,81	0,78	0,81	0,81	0,81
AP	0,98	0,75	0,98	1,00	0,81	0,78	0,81	0,71	0,90
EP-freshwater	0,80	0,78	0,95	1,00	0,81	0,78	0,81	0,71	0,90
EP-marine	0,98	0,75	0,98	1,00	0,81	0,78	0,81	0,72	0,91
EP - terrestrial	0,98	0,75	0,98	1,00	0,81	0,78	0,81	0,72	0,91
POCP	0,98	0,77	0,98	1,00	0,81	0,78	0,81	0,74	0,88
ADPE	0,84	0,78	0,95	1,00	0,81	0,78	0,81	0,78	0,83
ADPF	0,79	0,78	0,94	1,00	0,81	0,78	0,81	0,75	0,88
WDP	0,78	0,78	0,94	1,00	0,81	0,78	0,81	0,75	0,85
PERE	0,84	0,78	0,94	1,00	0,81	0,78	0,81	0,72	0,93
PERM	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
PERT	0,88	0,78	1,02	1,00	0,81	0,78	0,81	0,67	0,01
PENRE	0,81	0,78	0,94	1,00	0,81	0,78	0,81	0,75	0,88
PENRM	0,77	1,00	1,00	1,00	1,00	0,77	1,00	1,00	1,00
PENRT	0,79	0,78	0,94	1,00	0,81	0,77	0,81	0,75	0,88
SM	0,92	1,00	0,92	1,00	1,00	1,00	1,00	0,89	0,89
RSF	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
NRSF	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
FW	0,78	0,78	0,94	1,00	0,81	0,78	0,81	0,74	0,86
HWD	0,83	0,78	0,95	1,00	0,81	0,78	0,81	0,80	0,92
NHWD	0,86	0,78	0,95	1,00	0,81	0,78	0,81	0,71	0,90
RWD	0,81	0,78	0,91	1,00	0,81	0,78	0,81	0,71	0,88
CRU	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
MFR	0,86	1,00	0,94	1,00	1,00	1,00	1,00	1,00	1,00
MER	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
EEE	0,83	1,00	1,00	1,00	1,00	0,78	1,00	1,00	1,00
EET	0,83	1,00	1,00	1,00	1,00	0,78	1,00	1,00	1,00
PM	0,90	0,01	2,80	0,01	1,70	0,78	0,81	0,72	0,92
IR	0,59	0,01	8,59	0,03	0,18	0,78	0,81	0,71	0,89
ETF-fw	0,09	0,20	4,02	0,03	0,35	0,78	0,81	0,75	0,87
HTP-c	0,38	0,10	2,86	0,03	0,43	0,78	0,81	0,78	0,85
HTP-nc	0,35	0,24	6,10	0,01	0,68	0,78	0,81	0,73	0,88
SQP	0,65	0,10	0,62	0,09	0,87	0,78	0,81	0,77	0,94

6. LCA: Interpretation

Figure 1 (Indicator results of LVT floor covering over its life cycle (Scenario 1: Energy recovery at the end-of-life))

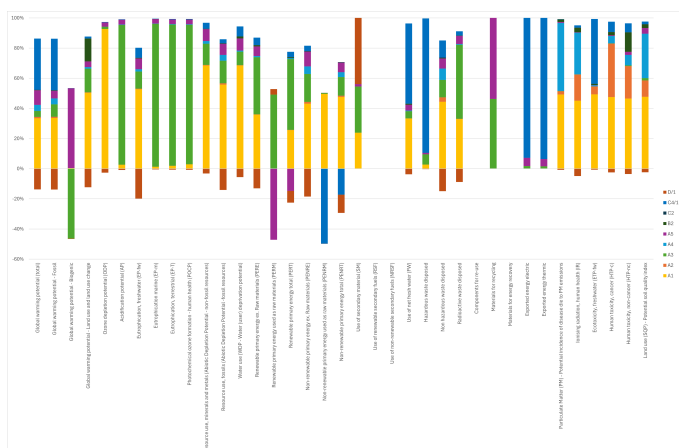
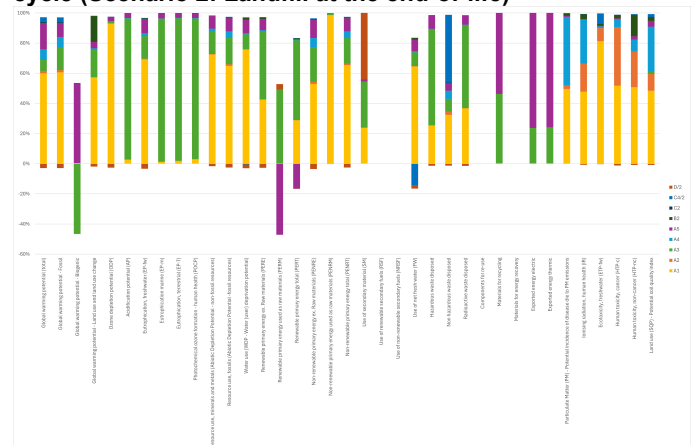


Figure 2 (Indicator results of LVT floor covering over its life cycle (Scenario 2: Landfill at the end-of-life))



In both scenarios, the majority of environmental impacts arise during production (modules A1-A3). Transport to the construction site has a comparatively minor effect. Maintenance (module B2) is presented for 1 year of product use, so its impact can be significant over the reference service life depending on the considered indicator.

In Scenario 1 (Incineration), end-of-life processing (module C4/1) also has a notable impact, with around 10% of the life cycle impacts linked to energy recovery, substituting natural gas and electricity (Figure 1). In Scenario 2 (Landfill), cradle-to-gate production dominates, with minimal environmental benefits from end-of-life disposal (less than 1%) (Figure 2).

7. Requisite evidence

7.1 Formaldehyde emissions

Determination of the formaldehyde emissions of a LVT flooring according to according to *EN 16516* and evaluation according to different labels. – Eurofins Product Testing Denmark A/S - Smedeskovvej 38 8464 Galten Denmark Test Report nr 392-2023-00576401_A_EN 'Unilin LVT Flex Dryback 2.5 mm - 0.55 mm'.

Name	Value	Unit
Formaldehyde CAS nr. 50-00-0	<3	µg/m³

7.2 VOC emissions on 2.5 mm flexible LVT Flooring

Determination of the VOC emissions of a flexible LVT flooring according to *EN 16516* and evaluation according to different labels. – Eurofins Product Testing Denmark A/S - Smedeskovvej 38 8464 Galten Denmark Test Report nr 392-2023-00559101_A_EN_rev1 'Unilin LVT Flex Dryback 2.5 mm - 0.55mm'.

- Compliant with AgBB-Scheme 2021
Compliant with the French VOC-Regulation: A+

Name	Value	Unit
TVOC	6.4	µg/m³
Formaldehyde	<3	µg/m³
Acetaldehyde	<3	µg/m³
Toluene	<2	µg/m³
Tetrachloroethylene	<2	µg/m³
Ethylbenzene	<2	µg/m³
Xylene	<2	µg/m³
Styrene	<2	µg/m³
2-butoxyethanol	<2	µg/m³
1,2,4-Trimethylbenzene	<2	µg/m³
1,4-Dichlorobenzene	<2	µg/m³

8. References

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