SENTINEL HOLDING
INSTITUT

SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

12065-10-1026

Kährs LT Vinylböden Rigid Click

Product group: Vinyl - Floor coverings / Wall coverings

Kährs Parkett Deutschland GmbH & Co. KG
Konrad-Adenauer-Str. 15
72072 Tübingen

Product qualities:

- SHI Product Assessment 2024
- QNG Qualitätssiegel Nachhaltiges Gebäude
- DGNB NEW CONSTRUCTION 2023.2
- DGNB NEW CONSTRUCTION 2023
- DGNB NEW CONSTRUCTION 2018
- BNB-BN NEUBAU V2015
- EU TAXONOMY
- BREEAM DE NEUBAU 2018
- LEED v4.1 (outside US)

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

Köttner

Helmut Köttner
Scientific Director
Freiburg, 17 August 2026

SENTINEL HOLDING
INSTITUT

Product:
Kährs LT Vinylböden Rigid Click

SHI Product Passport no.:
12065-10-1026

Contents

SHI Product Assessment 2024	1
QNG - Qualitätssiegel Nachhaltiges Gebäude	2
DGNB New Construction 2023.2	3
DGNB New Construction 2023	4
DGNB New Construction 2018	5
BNB-BN Neubau V2015	6
EU taxonomy	7
BREEAM DE Neubau 2018	8
LEED v4.1	9
Product labels	10
Legal notices	11
Technical data sheet/attachments	12

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

SENTINEL HOLDING
INSTITUT

Product:
Kährs LT Vinylböden Rigid Click

SHI Product Passport no.:
12065-10-1026

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 ≤ 160 µg/m^3 Formaldehyd ≤ 10 µg/m^3	Indoor Air Quality Certified
Valid untill: 26 August 2027			

SENTINEL HOLDING
INSTITUT

Product:
Kährs LT Vinylböden Rigid Click

SHI Product Passport no.:
12065-10-1026

QNG - Qualitätssiegel Nachhaltiges Gebäude

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

Criteria	Pos. / product group	Considered substances	QNG assessment
3.1.3 Schadstoffvermeidung in Baumaterialien	2.2 Resilient floor coverings – including multilayer systems	VOC / Emissions / hazardous substances / polycyclic aromatic hydrocarbons (PAH) / SVHC / heavy metals	QNG ready
Verification: Herstellererklärung vom 17.03.2026 nachgewiesen durch Emissionsprüfbericht eurofins (392-2019-00007401_A_EN) vom 20.02.2019. Konformitätserklärung vom 09.10.2025 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.			

SENTINEL HOLDING
INSTITUT

Product:
Kährs LT Vinylböden Rigid Click

SHI Product Passport no.:
12065-10-1026

DGNB New Construction 2023.2

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

SENTINEL HOLDING
INSTITUT

Product:
Kährs LT Vinylböden Rigid Click

SHI Product Passport no.:
12065-10-1026

DGNB New Construction 2023

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

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 03.05.2024 (3rd edition)	7 Floor coverings (Resilient floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 3
Verification: Herstellererklärung vom 17.03.2026 nachgewiesen durch Emissionsprüfbericht eurofins (392-2019-00007401_A_EN) vom 20.02.2019. Konformitätserklärung vom 09.10.2025 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.			

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 29.05.2025 (4th edition)	7 Floor coverings for indoor use (elastic floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 3
Verification: Herstellererklärung vom 17.03.2026 nachgewiesen durch Emissionsprüfbericht eurofins (392-2019-00007401_A_EN) vom 20.02.2019. Konformitätserklärung vom 09.10.2025 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.			

SENTINEL HOLDING
INSTITUT

Product:
Kährs LT Vinylböden Rigid Click

SHI Product Passport no.:
12065-10-1026

DGNB New Construction 2018

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

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

Verification: Herstellererklärung vom 17.03.2026 nachgewiesen durch Emissionsprüfbericht eurofins (392-2019-00007401_A_EN) vom 20.02.2019. Konformitätserklärung vom 09.10.2025 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.

SENTINEL HOLDING
INSTITUT

Product:
Kährs LT Vinylböden Rigid Click

SHI Product Passport no.:
12065-10-1026

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: Herstellererklärung vom 17.03.2026 nachgewiesen durch Emissionsprüfbericht eurofins (392-2019-00007401_A_EN) vom 20.02.2019. Konformitätserklärung vom 09.10.2025 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.			

SENTINEL HOLDING
INSTITUT

Product:
Kährs LT Vinylböden Rigid Click

SHI Product Passport no.:
12065-10-1026

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)	Stoffe nach Anlage C, Formaldehyd, Karzinogene VOC Kategorie 1A/1B	compliant
Verification: Herstellererklärung vom 17.03.2026 nachgewiesen durch Emissionsprüfbericht eurofins (392-2019-00007401_A_EN) vom 20.02.2019. Konformitätserklärung vom 09.10.2025 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.			

SENTINEL HOLDING
INSTITUT

Product:
Kährs LT Vinylböden Rigid Click

SHI Product Passport no.:
12065-10-1026

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: Prüfbericht eurofins (392-2019-00007401_A_EN) vom 20.02.2019. Konformitätserklärung vom 09.10.2025 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.			

SENTINEL HOLDING
INSTITUT

Product:
Kährs LT Vinylböden Rigid Click

SHI Product Passport no.:
12065-10-1026

Kährs®

LEED v4.1

LEED (Leadership in Energy and Environmental Design) is an internationally recognised building certification system developed by the U.S. Green Building Council. It is one of the most widely used sustainability standards for buildings worldwide and is particularly applied in internationally oriented projects. LEED assesses buildings holistically across categories such as energy efficiency, resource conservation, material selection, indoor environmental quality and site sustainability. Depending on the number of points achieved, projects are awarded one of the certification levels: LEED Certified, Silver, Gold or Platinum.

Criteria	Product category	Considered substances	Assessment
EQ Credit: Low-Emitting Materials	Bodenbeläge	Emissionen: Formaldehyd, VOC, Krebserregende Stoffe	compliant
Verification: Prüfbericht eurofins (392-2019-00007401_A_EN) vom 20.02.2019. Konformitätserklärung vom 09.10.2025 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.			

SENTINEL HOLDING
INSTITUT

Product:
Kährs LT Vinylböden Rigid Click

SHI Product Passport no.:
12065-10-1026

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.

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.

SENTINEL HOLDING
INSTITUT

Product:
Kährs LT Vinylböden Rigid Click

SHI Product Passport no.:
12065-10-1026

Legal notices

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

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

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

Publisher

Sentinel Holding Institut GmbH
Bötzinger Str. 38
79111 Freiburg im Breisgau
Germany
Tel.: +49 761 590 481-70
info@sentinel-holding.eu
www.sentinel-holding.eu

TECHNISCHE DATEN KÄHRS LUXURY TILES
SPC RIGID CLICK 6mm WOOD DESIGN

OULANKA
Artikel-Nr. LTCLW2110-218

PRODUKT		
Click LVT Rigid Core SPC+ IXPE	EN ISO 10582	Elastischer Bodenbelag
Verbindung		Välinge Click 5G®
Klassifizierung	EN ISO 10874	23/33/

SPEZIFIKATIONEN		
Dicke	EN ISO 24337	6,0 mm
Gewicht	EN ISO 24342	9,76 kg/m²
Nutzschicht	EN ISO 24346	0,55 mm

PRODUKTEIGENSCHAFTEN		
EIGENSCHAFTEN	TESTMETHODE	ERGEBNIS
Umwelt- und Raumluftzertifizierungen		M1, FloorScore, A+
Brandklasse	EN 13501-1	Bfl-s1
Resteindruck	EN ISO 24343-1 (2,5 h)	< 0,2 mm (*mit Unterlage)
Dimensionsstabilität	EN ISO 23999 (80 °C/6 h)	< 0,1 %
Wärmedurchlasswiderstand	EN 12664:2001	0.035 m2K/W
Farbbeständigkeit	EN ISO 105-B02	≥ 6
Gleitreibungswiderstand Rutschsicherheit / -hemmung	EN 13893 DIN 51130	DS (> 0.3) R10
Elektrostatisches Verhalten	EN 1815	< 2 kV (antistatisch)
Abrieb und Kratzbeständigkeit	EN 16094	Bestanden mit gutem Ergebnis
Chemikalienbeständigkeit	EN ISO 26987	Bestanden, mit gutem Ergebnis
Stuhlrolleneignung	EN 425	Geeignet, Verwendung weicher Rollen Typ W EN12529
Fußbodenheizung		Geeignet (max +27 °C)
Bakterienwachstum		Dient nicht als Substrat für bakterielles Wachstum
Trittschallschutz	EN ISO 10140	20 ΔL_w (dB) (IXPE Schalldämmung)

SPC Rigid Click Wood 1210 x 218 x 6 x 0,55 mm, 2,11 m²/Paket, 8 Elemente/Paket, 40 Pakete (84,4 m²)/Palette

Muster aller Bodenbeläge sind auf Anfrage unter www.kahrsflooring.com erhältlich.
Sie finden dort zudem detaillierte Informationen zu Verlegung, Reinigung und Pflege.

EN 14041

TECHNISCHE DATEN KÄHRS LUXURY TILES
OULANKA CLW 218





EUROPEAN RESILIENT FLOORING MANUFACTURERS' INSTITUTE

ERFMI vzw,
European Resilient Flooring Manufacturers' Institute
24, Rue Montoyer
B-1000 Brussels
Belgium
Tel.: + 32 2 2 87 08 72
www.erfmi.com

Environmental Product Declaration for:

Semi flexible LVT floating floor with mechanical locking according to EN ISO 10582

This EPD was produced on September 19, 2019 and refers to:

Kährs LT SPC Click

GENERAL INFORMATION

In this EPD semi flexible LVT floating floor with mechanical locking according to EN ISO 10582 are declared. The application of this EPD is restricted printed laminate polyvinyl chloride floor coverings produced by the members of the European Resilient Flooring Manufacturers' Institute (ERFMI). Data are based upon production during 2017 for the European market. Data have been provided by 4 companies of ERFMI which represent 66% of ERFMI members. The production sites are located in Europe and China.

PRODUCT

Product description / Product definition
Resilient floor coverings are an entire product family of flexible flooring solutions available in sheet, tiles and planks. It is classified in heterogeneous or homogeneous composition based on plastics, linoleum, cork or rubber. Resilient floor coverings can provide different functionalities (acoustic, static control, slip resistance, easy maintenance etc.) to match a wide range of domestic, commercial and industrial applications. It is available in an enormous range of patterns and colours fitting with inspiration and decorative needs.

Semi flexible luxury vinyl tiles (LVT) floating floor with mechanical locking according to /EN ISO 10582/ are polyvinyl chloride heterogeneous floor coverings consisting of a wear layer and other compact layers which differ in composition and/or design and can contain reinforcement and are supplied in tile and plank form with a mechanical locking system for assembly for loose laying.

Floor covering is covered by the Construction Product Regulation (CPR). In accordance with the CPR a Declaration of Performance (DoP) of its Essential Characteristics according to /EN 14041/ and the related CE mark are mandatory when the product is sold in the EU.

Application
According to EN ISO 10874 the area of application for resilient floor coverings is indicated by use classes. The declared product group covers the use classes 23 and 34.

Technical Data
The following table contains the construction data of the declared product group:

Constructional data

Name	Value	Unit
Product thickness	4.1	mm
Surface weight	8.6	kg/m²
Product Form	tiles	-

The data given in the Declaration of performance apply.

Base Materials / Ancillary materials
The product group has the following composition:

- Additives 1%
- Filler 54%
- Plasticizer 9%
- Pigments <1%
- Polymers (PVC) 26%
- Auxiliaries <1%
- Lacquer 1%
- Flooring Recyclate (PVC) 7%

Reference service life
The service lifetime of a floor covering for a certain application on a floor is too widespread to give one common number. For this EPD model the reference service lifetime (RSL) is set to one year. This means that all impacts for the use phase are based on the cleaning and maintenance model for one year.
Depending on the area of use based on /EN ISO 10874/, the technical lifetime advised by the manufacturer and the estimated time on the floor by the customer, the service lifetime can be determined. The use phase impacts should be calculated with the foreseen service life to arrive at the total environmental impact /EN 16810/.

The use phase impacts of this declaration are calculated with the expected service life entered in the ERFMI online EPD calculator (www.erfmi.com).

LCA: CALCULATION RULES

Declared Unit
1m² of floor covering.

Declared Unit

Name	Value	Unit
Declared unit	1	m2
Declared unit	8.6	kg/m²
Conversion factor to 1 kg	0.1163	-

The declaration refers to an average product from 6 production sites of ERFMI members. The data have been weighted according to the annual square meters produced by each site. The life cycle impact assessment is conducted based on the vertical average.

System boundary
Type of EPD: cradle to grave.

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.

Module A5 includes the production of offcuts and adhesive for the installation of the floor covering, and incineration of offcuts and packaging material.

Module B2 is including provision of cleaning agent, energy and water consumption for the cleaning of the floor covering incl. waste water treatment. The LCA results in this EPD are declared for a 20-year usage.

Module C1 considers electricity supply for the deconstruction of the flooring.

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 (WIP) (Scenario 1, C3/1)
- 100% landfilling (Scenario 2, C4/2)
- 100% recycling according to information from AgPR, (Arbeitsgemeinschaft PVC-Bodenbelag Recycling) (Scenario 3 - for the recycling scenario the end of waste state is reached after removal from the building)

Module D includes potential benefits from all net flows given in module A5 and C3 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.

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.

As background database /GaBi ts/ is used.

LCA: SCENARIOS AND ADDITIONAL TECHNICAL INFORMATION

The following technical information is a basis for the declared modules.

Transport to the construction site (A4)

Name	Value	Unit
Transport distance (truck)	2000	km
Capacity utilisation (including empty runs)	85	%

Installation in the building (A5)

Name	Value	Unit
Material loss (installation waste)	4.5	%
Auxiliary (adhesive)	0	%

Biogenic carbon incorporated in the packaging material is released as CO2 emissions in module A5.

Maintenance (B2) per year

Name	Value	Unit
Water consumption	0.003	m3
Electricity consumption	0.55	kWh
Maintenance cycle (vacuum cleaning & wet cleaning)	156	number/a
Auxiliary (detergent)	0.04	kg

End of Life (C1-C4)

Name	Value	Unit
Energy recovery [100%, Scenario 1]	8.6	kg
Landfilling [100%, Scenario 2]	8.6	kg
Recycling [100%, Scenario 3]	8.6	kg

Reuse, recovery and/or recycling potentials (D), relevant scenario information
For module D the potential benefits given in module A5 and C3 are declared. For waste incineration combustion in a WIP (R1 > 0.6) with energy recuperation is considered.

LCA: RESULTS

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

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	MND	MND	MND	MND	MND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT: 1 M² SEMI FLEXIBLE LVT FLOATING FLOOR WITH MECHANICAL LOCKING (8.6 KG/M²)

Parameter	Unit	A1-A3	A4	A5	B2	C1	C2	C3/1	C4/2	D/1	D/2	D/3
GWP	[kg CO2-Eq.]	12.10	2.20	1.69	5.6	0.01	0.08	16.80	0.60	-4.87	-0.31	-0.31
ODP	[kg CFC11-Eq.]	1.31E-9	5.22E-14	6.20E-11	2.06E-11	5.53E-14	2.17E-15	5.95E-12	1.63E-13	-9.20E-12	-6.03E-13	-6.03E-13
AP	[kg SO2-Eq.]	4.39E-2	4.33E-2	3.81E-3	1.456E-2	3.53E-5	1.74E-4	1.48E-2	1.65E-3	-7.48E-3	-4.83E-4	-4.83E-4
EP	[kg (PO4)3--Eq.]	4.33E-3	4.69E-3	4.20E-4	1.876E-3	3.31E-6	4.39E-5	6.54E-4	1.69E-3	-8.34E-4	-5.34E-5	-5.34E-5
POCP	[kg ethene-Eq.]	6.13E-3	1.66E-3	3.17E-4	1.186E-3	2.21E-6	-5.68E-5	3.43E-4	1.81E-4	-6.13E-4	-3.91E-5	-3.91E-5
ADPE	[kg Sb-Eq.]	4.18E-5	1.03E-7	2.14E-6	3.28E-6	6.61E-9	6.53E-9	4.87E-6	1.32E-7	-1.23E-6	-7.98E-8	-7.98E-8
ADPF	[MJ]	237.00	27.94	12.98	6.72E1	0.13	1.08	20.20	8.77	-68.93	-4.31	-4.31
Caption	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											

RESULTS OF THE LCA - RESOURCE USE: 1 M² SEMI FLEXIBLE LVT FLOATING FLOOR WITH MECHANICAL LOCKING (8.6 KG/M²)

Parameter	Unit	A1-A3	A4	A5	B2	C1	C2	C3/1	C4/2	D/1	D/2	D/3
PERE	[MJ]	20.35	0.66	4.14	3.18E1	0.09	0.06	8.05	0.68	-14.28	-0.94	-0.94
PERM	[MJ]	4.30	0.00	-2.60	0	0.00	0.00	-4.30	0.00	0.00	0.00	0.00
PERT	[MJ]	24.65	0.66	1.54	3.18E1	0.09	0.06	3.75	0.68	-14.28	-0.94	-0.94
PENRE	[MJ]	165.10	28.03	14.07	1.026E2	0.23	1.09	109.70	9.10	-84.74	-5.34	-5.34
PENRM	[MJ]	87.30	0.00	-0.13	0	0.00	0.00	-87.30	0.00	0.00	0.00	0.00
PENRT	[MJ]	252.40	28.03	13.94	1.026E2	0.23	1.09	22.40	9.10	-84.74	-5.34	-5.34
SM	[kg]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.60
RSF	[MJ]	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
NRSF	[MJ]	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
FW	[m³]	9.21E-2	1.23E-3	4.82E-3	4.94E-2	1.16E-4	1.10E-4	4.09E-2	-2.34E-5	-1.95E-2	-1.28E-3	-1.28E-3
Caption	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 – OUTPUT FLOWS AND WASTE CATEGORIES:

1 M² SEMI FLEXIBLE LVT FLOATING FLOOR WITH MECHANICAL LOCKING (8.6 KG/M²)

Parameter	Unit	A1-A3	A4	A5	B2	C1	C2	C3/1	C4/2	D/1	D/2	D/3
HWD	[kg]	7.89E-6	6.45E-7	4.11E-7	4.86E-8	1.07E-10	6.28E-8	1.40E-7	3.89E-8	-3.38E-8	-2.14E-9	-2.14E-9
NHWD	[kg]	3.56E-1	1.04E-3	3.59E-1	1.676E-1	1.60E-4	9.10E-5	7.58E+0	8.59E+0	-3.32E-2	-2.15E-3	-2.15E-3
RWD	[kg]	6.08E-3	3.55E-5	3.80E-4	1.404E-2	3.77E-5	1.49E-6	8.75E-4	1.29E-4	-6.27E-3	-4.11E-4	-4.11E-4
CRU	[kg]	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
MFR	[kg]	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	8.60
MER	[kg]	IND	IND	IND	IND	IND	IND	IND	IND	8.60	IND	IND
EEE	[MJ]	IND	IND	0.81	IND	IND	IND	18.00	IND	IND	IND	IND
EET	[MJ]	IND	IND	1.92	IND	IND	IND	42.70	IND	IND	IND	IND
Caption	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; EEE = Exported thermal energy											

TOXICITY

For the calculation the USEtox model (Version 2.1) is used.

USEtox is officially endorsed by the UNEP/SETAC Life Cycle Initiative, and recommended as assessment method by the European Commission (EC) in the Recommendations on the Use of Common Methods to Measure and Communicate the Life Cycle Environmental Performance of Products and Organisations, 2013/179/EU, by the European Commission's Joint Research Centre – Institute for Environment and Sustainability (JRC-IES) in the International Reference Life Cycle Data System (ILCD) Handbook / USEtox® Documentation/.
The amendment to EN 15804 will consider USEtox as an additional optional indicator /EN 15804+A2/.

RESULTS OF THE LCA - TOXIC IMPACT: 1M² INSTALLED

		Manu-facturing	Installation		Use stage	End-of-Life				Potential benefits		
Parameter	**Unit**	**A1-3**	**A4**	**A5**	**B2**	**C1**	**C2**	**C3/1**	**C4/2**	**D/1**	**D/2**	**D/3**
ETP-fw	CTUe	4.06E-02	6.47E-03	1.86E-03	1.23E-2	2.12E-05	2.55E-04	2.42E-03	8.37E-04	-3.90E-03	-2.54E-04	-2.54E-04
HTP-c	CTUh	4.73E-09	5.72E-12	2.14E-10	2.38E-10	5.61E-13	2.49E-13	4.68E-11	4.15E-11	-3.23E-10	-2.01E-11	-2.01E-11
HTP-nc	CTUh	1.88E-09	2.22E-12	8.73E-11	1.21E-11	2.94E-14	1.21E-13	1.93E-12	1.03E-11	-8.49E-12	-5.40E-13	-5.40E-13
Caption	ETP-fw = Ecotoxicity; HTP-c = Human toxicity, cancer effects; HTP-nc = Human toxicity, non-cancer effects											

The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator /EN 15804+A2/.

REFERENCES

/IBU 2016/
IBU (2016): General Programme Instructions for the Preparation of EPDs at the Institut Bauen und Umwelt e.V., Version 1.1 Institut Bauen und Umwelt e.V., Berlin.
www.ibu-epd.com

/ISO 14025/
DIN EN /ISO 14025:2011-10/, Environmental labels and declarations - Type III environmental declarations - Principles and procedures

/EN 15804/
/EN 15804:2012-04+A1 2013/,
Sustainability of construction works - Environmental Product Declarations - Core rules for the product category of construction products

/PCR 2017, Part A/
Institut Bauen und Umwelt e.V., Berlin (pub.): Product Category Rules for Construction Products from the range of Environmental Product Declarations of Institut Bauen und Umwelt (IBU), Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Background Report. 04/2017 www.ibu-epd.com

/PCR 2018, Part B/
Institut Bauen und Umwelt e.V., Berlin (pub.): Product Category Rules for Construction Products from the range of Environmental Product Declarations of Institut Bauen und Umwelt (IBU), Part B: Requirements on the EPD for floorcoverings, Institut Bauen und Umwelt e.V., www.ibu-epd.com, 02/2018

/EN 16810/
EN 16810: Resilient, textile and laminate floor coverings - Environmental product declarations - Product category rules, May 2017

/EN ISO 10582/
EN ISO 10582: Resilient floor coverings - Heterogeneous poly(vinyl chloride) floor coverings – Specification

/EN ISO 10874/
EN ISO 10874: Resilient, textile and laminate floor coverings - Classification (ISO 10874:2009)

/EN ISO 14041/
EN ISO 14041: Health, safety and energy saving requirements; EN 14041: Resilient, textile and laminate floor coverings - Essential characteristics

/GaBi ts/
GaBi ts dataset documentation for the software-system and databases, LBP,University of Stuttgart and thinkstep, Leinfelden-Echterdingen, 2017 (www.gabi-software.com/)

ILCD
International Reference Life Cycle Data System (ILCD) Handbook - Nomenclature and other provisions

USEtox
Rosenbaum, R.K., Bachmann, T.M., Gold, L.S., Huijbregts, M.A.J., Jolliet, O., Juraske, R., Köhler, A., Larsen, H.F., MacLeod, M., Margni, M., McKone, T.E., Payet, J., Schuhmacher, M., van de Meent, D., Hauschild, M.Z. (2008): USEtox -The UNEPSETAC toxicity model: recommended characterisation factors for human toxicity and freshwater ecotoxicity in Life Cycle Impact Assessment. International Journal of Life Cycle Assessment, 13(7): 532-546, 2008

USEtox® Documentation
Fantke, P., Bijster, M.,Guignard, C., Hauschild, M., Huijbregts, M., Jolliet, O., Kounina, A., Magaud, V., Margni, M., McKone, T.E., Posthuma, L., Rosenbaum, R.K., van de Meent, D., van Zelm, R., 2017.USEtox® 2.0 Documentation (Version 1), http://usetox.org

EN 15804+A2
EN 15804:2012+A1:2013/FprA2:2019
Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products

EPD 2019
EPD of Cork floor tiles according to EN 12104, EPD-ERF-20180184-CCI1-EN, Institut Bauen und Umwelt e.V. (IBU)

HERSTELLERERKLÄRUNG

Zur Bestätigung der Konformität gemäß den Anforderungen an die Schadstoffvermeidung nach QNG / DGNB / BNB / EU-TAXONOMIE

Hiermit bestätigen wir:

Kährs Holding AB

Ångbåtsbron 1

201 80 Malmö

für die folgenden **elastischen Bodenbeläge**:

Rigid Click 5 und 6 mm Vinylböden

Sowie alle Dry Back Vinylböden

Und elastische Emomer Bodenbeläge

Das Produkt/ Erzeugnis/ mindestens ein Teilerzeugnis enthält Stoffe der Kandidatenliste (Version zum Ausstellungsdatum) oberhalb 0,1 Massen%:	**Nein**
Das Produkt/Erzeugnis/mindestens ein Teilerzeugnis enthält weitere CMR-Stoffe der Kategorie 1A oder 1B, die nicht auf der Kandidatenliste stehen, oberhalb von 0,1 Massen-% in mindestens einem Teilerzeugnis:	**Nein**
Einhaltung AgBB-Schema	**Ja**
reproduktionstoxische Phthalate < 0,1 %	**Ja**
keine Zinn-, Cadmium- und Bleistabilisatoren	**Ja**
Chlorparaffine (SCCPs + MCCPs + LCCPs) < 0,1 %	**Ja**

Malmo, 17/03/2026,

Ort, Datum, Unterschrift, Stempel

Ihr Ansprechpartner für Rückfragen:

Name: PETRAS ROXANA Telefon: +40 742 149 329

Mailadresse: roxana.petras@kahrs.com