



SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

12065-10-1023

Luxury Tiles Dry Back Xpression

Product group: Flooring - Vinyl flooring



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



Product qualities:



Köttner

Helmut Köttner
Scientific Director
Freiburg, 20 January 2026



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

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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: 03 April 2026			



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QNG - Qualitätssiegel Nachhaltiges Gebäude

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

Criteria	Pos. / product group	Considered substances	QNG assessment
3.1.3 Schadstoffvermeidung in Baumaterialien	2.2 Resilient floor coverings – including multilayer systems	VOC / Emissions / hazardous substances / polycyclic aromatic hydrocarbons (PAH) / SVHC / heavy metals	QNG ready
Verification: Herstellererklärung vom 07.01.2025 sowie auf Grundlage des Prüfbericht des Instituts Eurofins Product Testing A/S (Prüfbericht Nr. 392-2022-00376301_A_EN) vom 15.10.2021. Konformitätserklärung vom 03.04.2024 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.			



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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 4
Verification: Blauer Engel Zertifikat vom 29.01.2018. Herstellererklärung vom 07.01.2025.			

Criteria	Assessment
SOC1.2 Indoor air quality (*)	May positively contribute to the overall building score
Verification: SHI-Schadstoffgeprüft	

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

Criteria	Assessment
ECO1.1 Life cycle cost (*)	May positively contribute to the overall building score
Verification: SHI-Schadstoffgeprüft	



Criteria	Assessment
SOC1.3 Sound insulation and acoustic comfort (*)	May positively contribute to the overall building score
Verification: Impact Sound Insulation Properties	

Criteria	Assessment
SOC2.1 Barrier-free design (*)	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 4
Verification: Blauer Engel Zertifikat vom 29.01.2018. Herstellererklärung vom 07.01.2025.			



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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: Blauer Engel Zertifikat vom 29.01.2018. Herstellererklärung vom 07.01.2025.			



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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 5
Verification: Blauer Engel Zertifikat vom 29.01.2018			



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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: Prüfbericht des Instituts Eurofins Product Testing A/S (Prüfbericht Nr. 392-2022-00376301_A_EN) vom 15.10.2021. Herstellererklärung vom 07.01.2025			



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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: Prüfbericht des Instituts Eurofins Product Testing A/S (Prüfbericht Nr. 392-2022-00376301_A_EN) vom 15.10.2021. Konformitätserklärung vom 03.04.2024 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.			



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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.



The *Blue Angel* ("Blauer Engel") ecolabel, awarded by the German Federal Environment Agency, is one of the oldest and most widely used ecolabels in Germany. It exists in several variants for many different product groups. Since the test criteria, such as threshold values, differ between these variants, it is important to consider each one individually when assessing indoor air quality.



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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TECHNISCHE DATEN KÄHRS LUXURY TILES

DRY BACK XPRESSON PVC-FREIER DESIGNBODEN



177,8 x 1219,2 x 2,0 mm

PRODUKT

Xpression	EN 14565	Aus natürlichen Mineralien und reinen thermoplastischen Polymeren. Frei von Chlor und Weichmachern.
Klassifizierung	EN ISO 10874	23/34/43



SPEZIFIKATIONEN

Dicke	EN ISO 24346	2,0 mm
Gewicht	EN ISO 23997	3400 g/m²
Größe	EN ISO 24342	177,8 x 1219,2 mm

PRODUKTEIGENSCHAFTEN

EIGENSCHAFT	TESTMETHODE	ERGEBNIS
Umwelt- und Raumluftzertifizierungen		Blauer Engel (UZ 120), M1, Floorscore, Österreichisches Umweltzeichen (UZ 56)
Brandverhalten	EN 13501-1	C _s -s1
Resteindruck	EN ISO 24343-1	< 0,05 mm
Dimensionsstabilität	EN ISO 23999 (50 °C/6 h)	< 0,1 %
Farbbeständigkeit	EN ISO 105-B02	≥ 6
Gleitreibungswiderstand Rutschsicherheit / -hemmung	EN 13893 DIN 51130	DS (> 0,3) Gruppe R9
Elektrostatisches Verhalten	EN 1815	≤ 2 kV (antistatisch)
Verschleißverhalten	EN 660-2 ISO 5470-1	≤ 2,0 mm³ (Group T) 0,05 g/1000 Umdrehungen
Chemische Beständigkeit	EN ISO 26987	Hervorragend
Wärmedurchlasswiderstand	EN 12664:2001	0,009 m²K/W
Stuhlrolleneignung	EN 425	Geeignet, Typ W
Fußbodenheizung		Geeignet (bis max. +27 °C Oberflächentemperatur bei Warmwasserheizung)
Flexibilität	EN ISO 24344 Methode A	40 mm
Beständigkeit gegen Bakterien- und Pilzwachstum	EN 846	Gut



KOLLEKTION KÄHRS LUXURY TILES

DRY BACK XPRESSION PVC-FREIER DESIGNBODEN

177,8 x 1219,2 x 2 mm



1511 Xpression Almond



1504 Xpression Smoked



1512 Xpression Dune



1514 Xpression Chestnut



1503 Xpression Natural



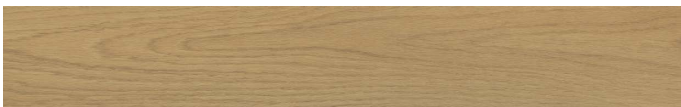
1515 Xpression Charcoal



1513 Xpression Hazel



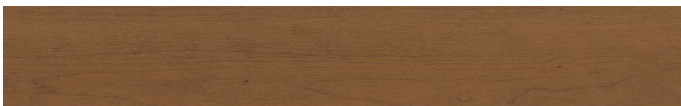
1501 Xpression Warm Grey



1516 Xpression Golden Oak



1502 Xpression Cool Grey



1519 Xpression American Cherry



1505 Xpression Dark Grey



1517 Xpression French Walnut

ENVIRONMENTAL PRODUCT DECLARATION

as per /ISO 14025/ and /EN 15804/

Owner of the Declaration	
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-UOY-200190081-CBC1-EN
Issue date	17/09/2019
Valid to	16/09/2024

Enomer 2 mm product range by Kahrs
Zero Sheet, Zero Tile, Xpression, Kahrs LT Enomer
Upofloor Oy, Finland

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



General Information

Upofloor Programme holder IBU - Institut Bauen und Umwelt e.V. Panoramastr. 1 10178 Berlin Germany	2,0 mm Enomer product range Owner of the declaration Upofloor Oy Souranderintie 2 FI- 37100 Nokia Finland
Declaration number EPD-UOY-200190081-CBC1-EN	Declared product / declared unit Resilient Enomer floor covering, installed / 1 m²
This declaration is based on the product category rules: Floor coverings, 02/2018 (PCR checked and approved by the SVR)	Scope: In this EPD resilient Enomer floor coverings are declared. The application of this EPD is restricted to the Enomer products of Upofloor Oy. It is delivered in the designs: • Zero Sheet • Zero Tile • Xpression • Kahrs LT Enomer
Issue date 17/09/2019	These products are 2,00 mm thick products. Product standard is EN14565; Resilient floor covering based upon synthetic thermoplastic polymers.
Valid to 16/09/2024	Data is based on production during 2017 in the manufacturing site in Ikaalinen, Finland.
 Dipl. Ing. Hans Peters (President of Institut Bauen und Umwelt e.V.)	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.
 Dr. Alexander Röder (Managing Director IBU)	Verification The standard /EN 15804/ serves as the core PCR Independent verification of the declaration and data according to /ISO 14025:2010/ ☐ internally ☒ externally
	 Prof. Dr. Birgit Grahl (Independent verifier appointed by SVR)

Product

Product description / Product definition

Resilient floor coverings are an entire product family of flexible flooring solutions available in sheets, tiles and planks. They are classified as having heterogeneous or homogeneous compositions based on vinyl, linoleum, cork, rubber or synthetic thermoplastic polymers. 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. They are available in a very wide range of patterns and colours fitting with inspiration and decorative needs.

This EPD applies to 2,0 mm thick Enomer product range manufactured by Upofloor Oy.

Enomer products are based upon synthetic thermoplastic polymers according to /EN14565/ and are supplied in either tile, plank or roll form.

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/: Resilient, textile, laminate and modular multilayer floor coverings - Essential characteristics/ and the CE-marking. For application and use the respective national provisions apply.

Application

According to /ISO 10874/ (previously EN 685) the area of application for resilient floor coverings is indicated

by use classes. The declared product group covers the use classes 23, 34 and 43.

Technical Data

Constructional data

Name	Value	Unit
Product thickness	2	mm
Product Form	Sheet, Tiles, Planks	-
Grammage min	3100	g/m ²
Grammage max	3600	g/m ²
Average Grammage (produced amount/year)	3180	g/m ²
Width Sheet	145	cm
Length 500 mm wide tiles	500	mm
Length 4 Inch wide planks	36	Inch
Length 7 Inch wide planks	48	Inch

Performance data of the product in accordance with the declaration of performance with respect to its essential characteristics according to /EN 14041:2004/: Resilient, textile, laminate and modular multilayer floor coverings - Essential characteristics.

Base materials / Ancillary materials

The product group has the following composition:

Mineral filler from natural source (60 - 75%)
Thermoplastic binder (Ethylene Copolymers, 20 - 40%)
Colour pigments (approx 2%)
Acrylate polymers (<1%)

This product contains substances listed in /the candidate list (15.01.2019)/ exceeding 0.1 percentage by mass: no.

Reference service life

This EPD does not indicate RSL. Only module B2 (maintenance) is declared and the use stage scenario is independent on the life time of the product. The declared modules in the table of results (chapter 5) refer to one life cycle of the floor covering with B2 (cleaning) being declared for a time period of one year. For the calculation of the impact of B2 for a different time period the values for B2 should be multiplied by the estimated service life in years.

LCA: Calculation rules

Declared Unit

1m² of installed floor covering with an average grammage of 3180 g/m².

Declared unit

Name	Value	Unit
Declared unit	1	m ²
Conversion factor to 1 kg	0.314	-

System boundary

Type of EPD: cradle to gate with options

Modules A1-A3 cover 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 covers transport of the floor covering to the place of installation.

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

Module B2 covers provision of cleaning agent, energy and water consumption for the cleaning of the floor

covering including waste water treatment. The LCA results in this EPD are declared for a one year usage.

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

Module C2 covers transportation of the postconsumer waste to waste processing.

End of life scenarios are declared for:

1. 100% incineration in a waste incineration plant (WIP)
2. 100% landfilling

Module D accounts for potential benefits from all net flows given in module A5 and C3 that leave the product system boundary after having passed the end-of-waste state in the form of recovery and/or recycling potentials.

Module D is declared separately for each scenario.

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.

For the calculation of the LCA the database /GaBi ts/ was used.

LCA: Scenarios and additional technical information

The following technical information is the basis for the declared modules:

Transport to the construction site (A4)

Name	Value	Unit
Transport distance	2000	km

Capacity utilisation (including empty runs)	85	%
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Installation in the building (A5)

Name	Value	Unit
Auxiliary (adhesive)	0.3	kg

Material loss (installation waste)	6	%
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Maintenance (B2)

Name	Value	Unit
Water consumption	0.003	m ³
Auxiliary (detergent)	0.04	kg
Electricity consumption	0.55	kWh
Maintenance cycle (vacuum cleaning & wet cleaning)	156	Number/a

End of Life (C1-C4)

Name	Value	Unit
Energy recovery	3.18	kg
Landfilling	3.18	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

The results for module B2 refer to a period of one year. To calculate the impact of B2 for a specific service life the values for B2 should be multiplied by the estimated service life in years.

Scenario C3/1-C4/1-D1 = 100% Incineration

Scenario C3/2-C4/2-D2 = 100% Landfilling

The evaluation of best End of Life (EoL)-Scenario requires the consideration of further aspects like avoidance of combustion of fossil fuels when incinerated and demand for landfilling when recycled.

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	MNR	MNR	MNR	MND	MND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT: 1 m² installed Enomer product (3,18 kg/m²)

Parameter	Unit	A1-A3	A4	A5	B2	C1	C2	C3/1	C3/2	C4/1	C4/2	D/1	D/2
GWP	[kg CO ₂ -Eq.]	6.11	0.30	0.98	0.28	0.01	0.03	4.21	0.00	0.00	0.22	-1.48	-0.12
ODP	[kg CFC11-Eq.]	1.35E-11	8.16E-15	1.79E-12	1.03E-12	5.53E-14	8.03E-16	1.29E-12	0.00E+0	0.00E+0	6.03E-14	-2.79E-12	-2.36E-13
AP	[kg SO ₂ -Eq.]	1.15E-2	6.52E-4	1.39E-3	7.28E-4	3.54E-5	6.42E-5	5.90E-4	0.00E+0	0.00E+0	6.10E-4	-2.27E-3	-1.90E-4
EP	[kg (PO ₄) ³ -Eq.]	1.49E-3	1.65E-4	2.47E-4	9.38E-5	3.31E-6	1.62E-5	1.21E-4	0.00E+0	0.00E+0	6.24E-4	-2.53E-4	-2.11E-5
POCP	[kg ethene-Eq.]	1.24E-3	-2.13E-4	1.55E-4	5.93E-5	2.21E-6	-2.10E-5	5.34E-5	0.00E+0	0.00E+0	6.67E-5	-1.86E-4	-1.55E-5
ADPE	[kg Sb-Eq.]	4.24E-6	2.45E-8	4.03E-7	1.64E-7	6.61E-9	2.41E-9	1.80E-7	0.00E+0	0.00E+0	4.89E-8	-3.72E-7	-3.13E-8
ADPF	[MJ]	120.90	4.06	17.19	3.36	0.13	0.40	1.46	0.00	0.00	3.24	-21.02	-1.72
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 installed Enomer product (3,18 kg/m²)

Parameter	Unit	A1-A3	A4	A5	B2	C1	C2	C3/1	C3/2	C4/1	C4/2	D/1	D/2
PERE	[MJ]	18.58	0.00	4.79	0.00	0.00	0.00	0.26	0.00	0.00	0.00	-4.33	0.00
PERM	[MJ]	1.09	0.00	-1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PERT	[MJ]	19.67	0.22	3.70	1.59	0.09	0.02	0.26	0.00	0.00	0.25	-4.33	-0.37
PENRE	[MJ]	77.68	0.00	18.78	0.00	0.00	0.00	64.02	0.00	0.00	0.00	0.00	0.00
PENRM	[MJ]	62.42	0.00	-0.09	0.00	0.00	0.00	-62.33	0.00	0.00	0.00	0.00	0.00
PENRT	[MJ]	140.10	4.08	18.69	5.13	0.23	0.40	1.69	0.00	0.00	3.36	-25.81	-2.13
SM	[kg]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RSF	[MJ]	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
NRSF	[MJ]	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
FW	[m ³]	4.70E-2	4.14E-4	5.54E-3	2.47E-3	1.16E-4	4.08E-5	1.35E-2	0.00E+0	0.00E+0	-8.64E-6	-5.91E-3	-4.99E-4
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 installed Enomer product (3,18 kg/m²)

Parameter	Unit	A1-A3	A4	A5	B2	C1	C2	C3/1	C3/2	C4/1	C4/2	D/1	D/2
HWD	[kg]	1.05E-7	2.36E-7	4.67E-8	2.43E-9	1.07E-10	2.32E-8	1.24E-8	0.00E+0	0.00E+0	1.44E-8	-1.03E-8	-8.52E-10
NHWD	[kg]	6.06E-1	3.42E-4	9.28E-2	8.38E-3	1.60E-4	3.36E-5	8.21E-1	0.00E+0	0.00E+0	3.17E+0	-1.01E-2	-8.45E-4
RWD	[kg]	7.80E-3	5.58E-6	6.06E-4	7.02E-4	3.77E-5	5.49E-7	9.20E-5	0.00E+0	0.00E+0	4.77E-5	-1.90E-3	-1.61E-4
CRU	[kg]	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
MFR	[kg]	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
MER	[kg]	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	3.60E+0	IND
EEE	[MJ]	IND	IND	0.07	IND	IND	IND	5.64	IND	IND	IND	IND	IND
EET	[MJ]	IND	IND	0.13	IND	IND	IND	13.40	IND	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												

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VERLEGEEMPFEHLUNG

KÄHRs LUXURY TILES

DRY BACK XPRESSION

PVC-FREIER DESIGNBODEN

1. ALLGEMEINES

Die Ausführung der Bodenbelagsarbeiten ist eine Bauleistung im Sinne der VOB. Diese Verlegeanleitung ist deshalb in Anlehnung an die DIN 18365: VOB Vergabe- und Vertragsordnung für Bauleistungen – Teil C, erarbeitet.

2. ALLGEMEINE VORBEREITUNGEN

Enomer® Bodenbeläge von Kährs werden unter hohen Qualitätsansprüchen und Qualitätssicherung hergestellt. Dennoch muss der Bodenbelag vor dem Zuschnitt auf eventuelle Mängel geprüft werden. Sind Mängel, wie z.B. Farb- oder Prägefehler zu erkennen, müssen diese vor dem Zuschnitt und der Verlegung angezeigt werden.

Nach der Verlegung werden Mängelrügen nicht mehr anerkannt.

3. VORBEREITUNG DER UNTERGRÜNDE

Der Untergrund ist unter Berücksichtigung der VOB, Teil C, DIN 18365 anhand der gültigen Normen für Bodenbelagsarbeiten sowie den allgemeinen Regeln des Fachs vorzubereiten. Er muss eben, fest, sauber, rußfrei, zug- und druckfest sowie dauer trocken sein.

Die notwendigen Prüfungen sind mit geeigneten und dem Stand der Technik entsprechenden Werkzeugen/Geräten, wie z.B. einem CM-Feuchtigkeitspüfgerät, durchzuführen und zu protokollieren.

Bei der Prüfung der Restfeuchte sind folgende Werte einzuhalten:

<i>Estrichart</i>	<i>zulässige Restfeuchte</i>
<i>Zementestrich unbeheizt</i>	<i>< 2,0 CM-%</i>
<i>Zementestrich beheizt</i>	<i>< 1,8 CM-%</i>
<i>Calciumsulfat-/Fließanhydritestrich</i>	<i>< 0,5 CM-%</i>
<i>Calciumsulfat-/Fließanhydritestrich beheizt</i>	<i>< 0,3 CM-%</i>

Beim Verarbeiten von Spachtelmasse muss eine Schichtdicke von min. 2 mm erreicht werden, um einen gleichmäßig saugenden und ebenen Untergrund zu erzielen!

Der Auftragnehmer für Bodenbelagsarbeiten hat vor der Verlegung zu beurteilen, ob die Untergründe zur Verlegung geeignet sind. Eventuelle Bedenken sind schriftlich anzumelden.

4. VERLEGUNG

Für Enomer® Bodenbeläge dürfen nur Klebstoffe verwendet werden, die von Kährs empfohlen und freigegeben sind (siehe 5. Klebstoffempfehlung).

Bei der Verwendung verschiedener Verlegewerkstoffe sollte die Auswahl innerhalb eines Herstellersystems erfolgen.

Vor der Verklebung sind die Verarbeitungshinweise und Richtlinien des Klebstoffherstellers zu beachten.



Der Bodenbelag sollte ins halbnasse Klebett eingelegt werden. Die Planken müssen unmittelbar nach der Verlegung mit einer Walze von mindestens 50-70 kg abgefahren werden. Es ist darauf zu achten, dass der Bodenbelag fugendicht und spannungsfrei verlegt wird.

5. KLEBSTOFFEMPFEHLUNG

Die nachfolgend genannten Klebstoffe sind Empfehlungen von Kährs. Bei Verwendung anderer Klebstoffe oder Systemen, die hier nicht aufgeführt sind, übernimmt Kährs keine Haftung. Beachten Sie immer die Verarbeitungsvorschriften des Klebstoffherstellers.

Der Klebstoff muss mit einer Zahnung lt. Klebstoffherstellervorschrift aufgetragen werden.

Mapei: *Ultrabond Eco V4 SP*
Ultrabond Eco VS90 Plus

Ardex: (Ardex AF 180 MS)*

Wakol: (Wakol MS 552)*

** Für die Verlegung von Planken kann auch Klebstoff vom Typ MS verwendet werden. Beachten Sie die Herstellerhinweise für unterschiedliche Verlegearten.*

6. REINIGUNG UND PFLEGE

Entsprechend der DIN 18365: VOB – Teil C hat der Auftragnehmer dem Auftraggeber eine schriftliche Pflegeanleitung zu überreichen.

7. NACHHALTIGKEIT

Enomer® Bodenbeläge sind mit dem Blauen Engel (RAL UZ 120) und dem Österreichischen Umweltzeichen (UZ 56) zertifiziert. Bei Auswahl entsprechend zertifizierter Verlegewerkstoffe kann der gesamte Systemaufbau mit Enomer® Bodenbelägen nach den Kriterien dieser Umweltsiegel realisiert werden.



8. ALLGEMEINE HINWEISE

Bürostühle und Stuhlgleiter

Bürostühle müssen für den Gebrauch auf elastischen Bodenbelägen mit geeigneten Rollen des Typs W nach EN 12529 ausgestattet sein. Stuhlgleiter müssen den neuesten technischen Standards für elastische Böden entsprechen z.B. Scratchnomore von Dr. Schutz.

Diese Empfehlung beruht auf Erfahrungen in der Praxis und entspricht dem neuesten Stand der Verlegetechnik zum Zeitpunkt der Drucklegung. Im Einzelfall kann für die Vollständigkeit und Richtigkeit jedoch keine Haftung übernommen werden. Mit dem Erscheinen dieser Verlegeanleitung verlieren alle bisherigen ihre Gültigkeit.

HERSTELLERERKLÄRUNG

QNG – Schadstoffvermeidung in Baumaterialien

(Version 1.3, Korrekturfassung v. 14.09.2023)

Hiermit bestätigen wir:

Kährs Parkett Deutschland GmbH & Co. KG

Konrad-Adenauer-Straße 15

72072 Tübingen

für das folgende Produkt / die folgenden Produkte:

Kährs LT Dry Back Vinylböden

Nach Position 2.2 *Elastische Bodenbeläge – auch mehrschichtige Systeme:*

Das Produkt/ Erzeugnis/ mindestens ein Teilerzeugnis enthält Stoffe der Kandidatenliste (Version zum Ausstellungsdatum) oberhalb 0,1 Massen%:	nein
Einhaltung des AgBB-Schemas	ja
Reproduktionstoxische Phthalate < 0,10 %	ja
keine Zinn-, Cadmium- und Bleistabilisatoren	ja

Tübingen, 7. Jan. 2025

Ort, Datum, Unterschrift, Stempel

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

Ihr Ansprechpartner für Rückfragen:

Name: Sebastian Fleck Telefon: 07071/9193-220 Mailadresse: Sebastian.Fleck@kahrs.com