



SHI-PRODUKTPASS

Produkte finden - Gebäude zertifizieren

SHI-Produktpass-Nr.:

15314-10-1004

LLT 0.7mm

Warengruppe: Bodenbeläge - Rigid Designboden - Vinylboden



G.T.Floor B.V.
Rooijakkersstraat 32
5652BB Eindhoven



Produktqualitäten:



Köttner

Helmut Köttner
Wissenschaftlicher Leiter
Freiburg, den 07.07.2025



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





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SHI-Produktbewertung 2024

Seit 2008 etabliert die Sentinel Holding Institut GmbH (SHI) einen einzigartigen Standard für schadstoffgeprüfte Produkte. Experten führen unabhängige Produktprüfungen nach klaren und transparenten Kriterien durch. Zusätzlich überprüft das unabhängige Prüfunternehmen SGS regelmäßig die Prozesse und Aktualität.

Kriterium	Produktkategorie	Schadstoffgrenzwert	Bewertung
SHI-Produktbewertung	Sonstige Bodenbeläge	TVOC $\leq 160 \mu\text{g}/\text{m}^3$ Formaldehyd $\leq 10 \mu\text{g}/\text{m}^3$	Schadstoffgeprüft
Gültig bis: 03.07.2027			



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Qualitätssiegel Nachhaltiges Gebäude

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

Kriterium	Pos. / Bauproduktgruppe	Betrachtete Stoffe	QNG Freigabe
3.1.3 Schadstoffvermeidung in Baumaterialien	2.2 Elastische Bodenbeläge – auch mehrschichtige Systeme	VOC / Emissionen / gefährliche Stoffe / Polyzyklische Aromatische Kohlenwasserstoffe (PAK) / SVHC / Schwermetalle	QNG-ready
Nachweis: Prüfbericht des Eco Instituts vom 16.06.2025 (59924-A001-AgBB-L). Herstellereklärung vom 01.07.2025.			
Bewertungsdatum: 07.07.2025			



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EU-Taxonomie

Die EU-Taxonomie klassifiziert wirtschaftliche Aktivitäten und Produkte nach ihren Umweltauswirkungen. Auf der Produktebene gibt es gemäß der EU-Verordnung klare Anforderungen zu Formaldehyd und flüchtigen organischen Verbindungen (VOC). Die Sentinel Holding Institut GmbH kennzeichnet qualifizierte Produkte, die diesen Standard erfüllen.

Kriterium	Produkttyp	Betrachtete Stoffe	Bewertung
DNSH - Vermeidung und Verminderung der Umweltverschmutzung	Bodenbeläge (einschließlich zugehöriger Kleb- und Dichtstoffe)	Stoffe nach Anlage C, Formaldehyd, Karzinogene VOC Kategorie 1A/1B	EU-Taxonomie konform
Nachweis: Prüfbericht des Eco Instituts vom 16.06.2025 (59924-A001-AgBB-L). Herstellererklärung vom 01.07.2025.			
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DGNB Neubau 2023

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

Kriterium	Pos. / Relevante Bauteile / Bau-Materialien / Flächen	Betrachtete Stoffe / Aspekte	Qualitätsstufe
ENV 1.2 Risiken für die lokale Umwelt	7 Bodenbeläge (Elastische Bodenbeläge)	VVOC, VOC, SVOC Emissionen und Gehalt an gefährlichen Stoffen	Qualitätsstufe: 3
Nachweis: Prüfbericht des Eco Instituts vom 16.06.2025 (59924-A001-AgBB-L). Herstellererklärung vom 01.07.2025.			
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DGNB Neubau 2018

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Kriterium	Pos. / Relevante Bauteile / Bau-Materialien / Flächen	Betrachtete Stoffe / Aspekte	Qualitätsstufe
ENV 1.2 Risiken für die lokale Umwelt	7 Bodenbeläge (Elastische Bodenbeläge)	VOC / SVOC / gefährliche Stoffe	Qualitätsstufe: 4
Nachweis: Prüfbericht des Eco Instituts vom 16.06.2025 (59924-A001-AgBB-L). Herstellererklärung vom 01.07.2025.			
Bewertungsdatum: 07.07.2025			



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BNB-BN Neubau V2015

Das Bewertungssystem Nachhaltiges Bauen ist ein Instrument zur Bewertung von Büro- und Verwaltungsgebäuden, Unterrichtsgebäuden, Laborgebäuden sowie Außenanlagen in Deutschland. Das BNB wurde vom damaligen Bundesministerium für Umwelt, Naturschutz, Bau und Reaktorsicherheit (BMUB) entwickelt und unterliegt heute dem Bundesministerium für Wohnen, Stadtentwicklung und Bauwesen.

Kriterium	Pos. / Bauprodukttyp	Betrachtete Schadstoffgruppe	Qualitätsniveau
1.1.6 Risiken für die lokale Umwelt	2a Elastische Bodenbeläge – mit und ohne ankaschierte Verlege- oder Dämmunterlage	VOC / gefährliche Stoffe / Schwermetalle	Qualitätsniveau 3
Nachweis: Prüfbericht des Eco Instituts vom 16.06.2025 (59924-A001-AgBB-L). Herstellererklärung vom 01.07.2025.			
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BREEAM DE Neubau 2018

BREEAM (Building Research Establishment Environmental Assessment Methodology) ist ein britisches Gebäudebewertungssystem, welches die Nachhaltigkeit von Neubauten, Sanierungsprojekten und Umbauten einstuft. Das Bewertungssystem wurde vom Building Research Establishment (BRE) entwickelt und zielt darauf ab, ökologische, ökonomische und soziale Auswirkungen von Gebäuden zu bewerten und zu verbessern.

Kriterium	Produktkategorie	Betrachtete Stoffe	Qualitätsstufe
Hea 02 Qualität der Innenraumluft	Bodenbeläge (einschließlich Bodenspachtelmassen und Harzböden)	Emissionen: Formaldehyd, TVOC, TSVOC, Krebserregende Stoffe	herausragende Qualität
Nachweis: Prüfbericht des Eco Instituts vom 16.06.2025 (59924-A001-AgBB-L). Herstellereklärung vom 01.07.2025.			
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Produktsiegel

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



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



Dieses Produkt ist schadstoffgeprüft und wird vom Sentinel Holding Institut empfohlen. Gesundes Bauen, Modernisieren und Betreiben von Immobilien erfolgt dank des Sentinel Holding Konzepts nach transparenten und nachvollziehbaren Kriterien.



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Rechtliche Hinweise

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

Alle Kriterien finden Sie unter:

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

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Herausgeber

Sentinel Holding Institut GmbH
Bötzingen Str. 38
79111 Freiburg im Breisgau
Tel.: +49 761 59048170
info@sentinel-holding.eu
www.sentinel-holding.eu

Green-Flor ® PERFORMANCE 70 Loose Lay LVT tiles and planks

		Standard requirement	Test result	
Product specifications			Pass	
Total thickness	EN ISO 24346	5.0 mm	✓	–
Thickness of wear layer	EN ISO 24340	0.7 mm	✓	–
Size, delivery form	EN ISO 24342	–	✓	Planks Size1219.2 x 228.6 mm (48 x 9 inch) Carton8 planks = 2.23 m² Tiles 457.2 x 457.2 mm (18 x 18 inch) 8 tiles = 1.67 m²
Weight	EN ISO 23997	9100 gr/m ²	✓	9470 gr/m ²
Classification & Certification				
Type of flooring	EN ISO 10582	Heterogeneous, PVC	✓	–
Classification	EN ISO 10874	23 / 34 / 43	✓	–
Burning behaviour	EN 13501-1/ EN ISO 9239-1/ 11925-2 EN 14041: 2004/AC:2006	Bfl-s1	✓	Bfl-s1 (on support of A1fl or A2fl with density > 1350 kg/m3) ≤ 150mm, 8.7 kW/m2 129%.min 
Electrical behaviour	EN 1815	≤ 2 KV	✓	-1.0 KV(rubber) Antistatic -0.7 KV(pvc)
Slip resistance	DIN 51130/ EN 13893 EN 14041: 2004/AC:2006	R9, DS	✓	R10, DS 
Declaration of Performance	–	–	–	No. GFL PF – DoP - 013
Technical properties				
Abrasion resistance	EN ISO 10582	–	✓	Class T
Dimension stability	EN ISO 23999	≤ 0.15%	✓	< 0.10 %
Straightness and squareness	EN ISO 24342	< 0.35 mm tolerance	✓	< 0.20 mm
Curling after exposure to heat	EN ISO 23999	< 2 mm	✓	0 mm
Residual indentation	EN ISO 24343-1	< 0.1 mm	✓	0.08 mm
Castor wheel chair	ISO 4918	25,000 revolutions	✓	no damage. Wheel type W.
Flexibility	EN ISO 24344	20 mm no crack	✓	< 10 mm no crack
Surface treatment	–	–	–	Top Protection Plus, PUR
Color fastness	EN ISO 105-B02	≥ 6	✓	> 6
Staining and chemical resistance Caustic soda solution (25%), Citric acid (10%), Acetone, Coffee (120g/l)	EN ISO 26987	–	✓	Index 0, excellent
Thermal resistance	EN ISO 8302	–	✓	0.018 m ² K/W
Electrical resistance	EN 1081 - A	–	✓	> 3.0 x 10 ¹⁰ Ω
Underfloor heating	–	–	✓	max. 28°C
Environment / Indoor air quality				
Formaldehyde emissions	EN 14041: 2004/AC:2006	–	✓	
Pentachlorophenol content	EN 14041: 2004/AC:2006	–	✓	
TVOC after 28 days	ISO 16000	–	✓	certified A+ (ÖTI report No. 71995) 
REACH	(EU) No 1907/2006	in conformity	✓	no SVHC (Centexbel no. 13.03928.01)



*Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle allant de A+ (très faibles émissions) à C (fortes émissions)

*ISO 16000/AFFSET



Material Safety Data Sheet

Created: 26-Aug-17

Revision: 1-Mar-23

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT NAME: **PLASTICIZED POLYVINYL CHLORIDE FILM**

THIS IS A MIXED SUBSTANCE.

CHEMICAL FAMILY: PVC RESIN, PLASTICIZER, STABILIZER, MODIFIER, PIGMENT

CHEMICAL FORMULA: MIXED SUBSTANCE FOR FLOOR TOP LAYER AND MIDDLE & BACKING LAYER SHEETING.

MANUFACTURER: **JIANGSU CHANG LONG PLASTICS CO., LTD**

LOCATION: **NO.168, BAI CHUAN Rd., HAIAN, JIANGSU China**

EMERGENCY TELEPHONE NUMBER: **0513-69817888**

HMIS:

HEALTH: 0

REACTIVITY: 0

PERSONAL PROTECTION: 0

2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT	COMPOSITION/APPROX		ACGIH TLV	OSHA PEL		
	WT%	CAS REG NO.		TWA	STEL	STEL
PVC RESIN	20~50	9002-86-2	NE	NE	NE	NE
PLASTICIZER(DOTP)	8~23	6422-86-2	NE	NE	NE	NE
Calcium carbonate	23~68	471-34-1	NE	NE	NE	NE
STABILIZER(Ca/Zn)	0.1~4	1592-23-0 557-05-1	NE	NE	NE	NE
carbon black	0.1~1	1333-86-4	NE	NE	NE	NE
UV normasal	<0.1	1843-05-6	NE	NE	NE	NE
EPOXIDIZED	0.5~2	8013-07-8	NE	NE	NE	NE
Glass Fiber	0.3~0.6	65997-17-3	NE	NE	NE	NE
PUA COATING	0.1 ~ 0.4	1304834-33-4	NE	NE	NE	NE

3. HAZARDS IDENTIFICATION

HEALTH HAZARDS:

HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.

PHYSICAL AND CHEMICAL HAZARDS/FIRE AND EXPLOSION HAZARDS:

4. FIRST AID MEASURE

INHALATION:

ADMINISTER ARTIFICIAL RESPIRATION IF BREATHING IS STOPPED. KEEP AT REST.

CALL FOR PROMPT MEDICAL ATTENTION.

SKIN CONTACT:

FLUSH WITH LARGE AMOUNTS OF WATER; USE SOAP IF AVAILABLE.

EYE CONTACT:

FLUSH EYES WITH LARGE AMOUNTS OF WATER UNTIL IRRITATION SUBSIDES.

IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INGESTION:

IF SWALLOWED, DO NOT INDUCE VOMITING. KEEP AT REST, GET PROMPT MEDICAL ATTENTION.

5 FIRE FIGHTING MEASURES

SPECIAL FIRE FIGHTING PROCEDURES:

FIREFIGHTERS MUST BE EQUIPPED TO PREVENT BREATHING OF VAPORS PRODUCTS OF COMBUSTION. WEAR AN APPROVED SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

UNUSUAL FIRE AND EXPLOSION HARARDS:NONE

FLASHPOINT:(METHOD USED)CLEVELAND OPEN CUP>320°C

FLAMMABLE LIMITS%: NO DATA AVAILABLE

EXTINGUISHING AGENTS:

DRYCHEMICAL OR CO2 OR FOAM

CLOSED CONTAINER EXPOSED TO FIRE MAY BE COOLED WITH WATER

6 ACCIDENTAL RELEASE MEASURE

ELIMINATION SOURCES OF IGNITION. WARN OCCUPANTS OF DOWNWIND AREAS OF FIRE AND EXPLOSION HAZARD. PREVENT LIQUID FROM ENTERING SEWERS, WATERCOUSES, OR LOW AREAS.

PROCEDURES FOR CLEAN-UP:

WASTE DISPOSAL.

7 HANDING AND STORAGE

DO NOT STORE NEAR STRONG OXIDIZING AGENTS.

COMBUSTIBLE. KEEP AWAY FROM HEAT, FLAMES AND ALL SOURCES OF IGNITION.

KEEP CONTAINER CLOSED UNTIL READY FOR USE.

8 EXPOSURE CONTROL/PERSONAL PROTECTION

VENTLATION TYPE REQUIRED(LOCAL, MECHANICAL, SPECIAL):

USE ADEQUATE LOCAL EXHAUST TO MAINTAIN SOLVENTS BELOW EXPOSURE LIMITS IN SECTION IV, RESPIRATORY PROTECTION REQUIRED WHEN LEVELS EXCEED LIMITS.

PROTECTIVE GLOVES: NEOPRENE TYPE

EYE PROTECTION: CHEMICAL SAFETY GOGGLE

OTHER PROTECTIVE EQUIPMENT:NEOPRENE PROTECTIVE TYPE APRON

9 CHEMICAL AND PHYSICAL PROPERTIES

INCOMPATIBILITY(KEEP AWAY FROM):

STRONG OXIDIZERS SUCH AS HYDROGEN PEROXIDE

TOXIC AND HAZARDOUS INGREDIENTS:NO

FORM:SOLID

APPEARANCE:FILM

ODOR:NONE

COLOR:CLEAR

SPECIFIC GRAVITY(WATER=1):1.2~2.0

BOILING POINT:NOT APPLICABLE
MELTING POINT:130~200°C
SOLUBILITY IN WATER(BY WEIGHT%):NEGLIGIBLE
EVAPORATION RATE:(BUTYL ACETATE=1) NEGLIGIBLE
VAPOR PRESSURE(mmHG at 20°C):NEGLIGIBLE
VAPOR DENSITY(AIR=1):NEGLIGIBLE
PH(as is):NOT APPLICABLE
VISCOSITY SUS AT 30°C :NEGLIGIBLE

10 STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION?	NO
CONDITIONS TO AVOID POLYMERIZATION:	NOT APPLICABLE
STABILITY:	IS STABLE UNDER NORMAL CONDITIONS
CONDITIONS TO AVOID INSTABILITY:	NOT APPLICABLE
MATERIALS AND CONDITIONS TO AVOID(INCOMPATIBILITY):	STRONG OXIDIZING AGENTS
HAZARDS DECOMPOSITION PRODUCT:	CARBON MONOOXIDE AND CARBON DIOXIDE FROM BURNING

11 TOXICOLOGICAL INFORMATION

PERMISSIBLE CONCENTRATIONS(AIR):NOT APPLICABLE
CHRONIC EFFECTS OF OVEREXPOSURE:NO DATA AVAILABLE
ACUTE TOXICOLOGICAL PROPERTIES:
SOME PEOPLE MAY HAVE AN ALLERGIC RESPONSE
EMERGENCY FIRST AID PROCEDURES:
SKIN CONTACT:WASH WITH SOAP AND WATER
INHALATION:
IF SWALLOWED:
CALL A PHYSICIAN IMMEDIATELY. INDUCE VOMITING IF VICTIM IS CONSCIOUS.
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

12 ECOLOGICAL INFORMATION

ENVIRONMENTAL INFORMATION:NO DATA AT THIS TIME
ENVIRONMENTAL DEGRADABILITY:NO DATA AT THIS TIME
ECOTOXICITY AND BIOACCUMULATION:NO DATA AT THIS TIME

13 DISPOSAL CONSIDERATIONS

DISPOSAL OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

14 TRANSPORTATION INFORMATION

D.O.T:NOT REGULATED
REPORTABLE QUANTITY:NOT APPLICABLE
FREIGHT CLASSIFICATION:
SPECIAL TRANSPORTATION NOTES:
UN NO:NOT APPLICABLE

15 REGULATIONS INFORMATION

CLASSIFICATION ACCORDING TO EEC DIRECTIVES:

CLASSIFICATION/SYMBOL:HARMFUL/X_n

NATURE OF SPECIAL RISK:

R65 HARMFUL:MAY CAUSE LUNG DAMAGE IF SWALLOWED

SAFETY ADVICE:

S23 DO NOT BREATHE GAS/FUMES/VAPOUR/SPRAY

S24 AVOID CONTACT WITH SKIN

S43A IN CASE OF FIRE USE SAND, EARTH, CHEMICAL POWDER, OR FOAM

16 OTHER INFORMATION

THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PROCESS. SUCH INFORMATION IS TO THE BEST OF SHANGHAI CHANG LONG PLASTICS CO., LTD'S KNOWLEDGE AND BELIEVED ACCURATE AND REIABLE AS OF THE DATE INDICATED.

HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SAFETY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.



Environmental Product Declaration

in accordance with ISO 14025 and EN 15804



G. T. Floor CO., LTD

Heesakkerweg 15, 5721 KM Asten, The Netherlands.

+31 40 845 96 16

<https://www.green-flor.com/en/index.asp>

Product

LLT PVC Flooring



Environmental Product Declaration Details

EPD Type	Cradle to Gate with modules C1–C4 and module D (A1–A3, C and D)
EPD Number	JDC:FL01:2024:EP
Issue Date	02 August 2024
Valid Until	02 August 2029
GPI Version	Version 2.1
Demonstration of Verification	
PCR	CEN Standard EN 15804+A2 2019 serves as core Product Category Rules (PCR). Sub-PCR FC:2022 V1 Interior Floor Coverings V1
Verification	Independent external verification of the declaration and data, mandatory for business-to-consumer communication according to ISO 14025:2010.
Communication	This EPD discloses potential environmental outcomes compliant with EN 15804 for business-to-business communication.
Comparability	EPD of construction products may not be comparable if they do not comply with EN 15804. Different program EPDs may not be comparable. Comparability is further dependent on the product category rules and data source used.
Reliability	LCIA results are relative expressions that do not predict impacts on category endpoints, exceeding of thresholds, safety margins or risks.
Owner	This EPD is the property of the declared manufacturer.
Explanations	Further explanatory information is available at info@globalgreentag.com or by contacting epd@globalgreentag.com .

EPD Program Operator

Global GreenTag International Pty ,Ltd

Level 38, 71 Eagle Street Brisbane City, QLD 4000,Australia
+61 1300 263 586
<http://www.globalgreentag.com>



Declaration Owner

G. T. Floor CO., LTD

Heesakkerweg 15, 5721 KM Asten, The Netherlands.
+31 40 845 96 16
<https://www.green-flor.com/en/index.asp>



Program Description

EPD Scope	Cradle to gate with options (A1 to A3, C1-C4 and D)																
EPD Type	EPD based on specific site and product data																
System boundary	The system boundary with nature includes processing material and energy system inputs, transport to factory gate, manufacturing plus packing, waste disposal, as well as waste removal and waste disposal after the expiration of product life.																
Stages included	A1-A3, C1-C4, D																
Stages excluded	A4-A5, B1-B7																
Information Modules	Figure 1 depicts all modules being declared including some with zero results. Any module not declared (MND) does not indicate a zero result.																
Model	Actual					Scenarios										Potential	
Information	Life Cycle Assessment													Supplementary			
Stages	Product			Construct		Use							End-of-Life				Benefit & load beyond system
Modules						Fabric					Operation						
Unit Operations	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Cradle to grave phases	Resources	Transport	Manufacture	Transport	Construct	Use	Maintain	Repair	Replace	Refurbish	Energy Use	Water use	Demolish	Transport	Process Waste	Disposal	Reuse
Modules Declared	✓	✓	✓	ND	ND	ND	ND	ND	ND	ND	ND	ND	✓	✓	✓	✓	✓

Note: ND = Module not declared ✓ = included

Figure 1 EPD Life Cycle Modules Cradle to Grave

Product Information

General Information

Brand Name & Code	Green-Flor PVC flooring		
Range Names	LLT flooring		
Factory warranty	10-20 Years		
Geographical Area	China		
Application	Indoor flooring		
Function in Building	Flooring covering		
Reference Service Life	10 Years		
Declared Unit	9.4 kg of LLT interior floor covering per square metre covered in any building sectors cradle to gate.		
Manufacturer Warranty	10-20 Years		
Substances Of Very High Concern	None		
Test Reports	Standard/Certification	Status	Last Date Completed
	EN 13501-1:2018 Fire	B _{fl} -s1, passed	Apr 12, 2023
	ISO 8301:1991 Thermal Conductivity and Thermal Resistance	<0.05 m ² K/W, passed	Apr 11, 2023
	EN 717-1:2004 Formaldehyde Emission (In air)	0.080 mg/m ³	Apr 14, 2023
	BS EN 14041:2018 Annex B & EN12673:1999 Pentachlorophenol (PCP)	0.1 mg/kg	Apr 11, 2023
	ASTM E 648-19ae1 Critical Radiant Flux	Min. 1.1W/cm ² (Class I > 0.45W/cm ²), passed	Apr 11, 2023
	ASTM E662-21ae1 Smoke Density	Smoke density of <450	Apr 11, 2023
	EN ISO 26987:2012 Determination of Staining and Resistance to Chemical	Index 0 (Not affected, passed)	May 31, 2024
	EN ISO 105-B02:2014 Colour Fastness to Light	≥6, passed	Jun 05, 2024
	ISO 4918:2016+Amd.1:2018 Castor Chair Test	No visible damage after 25000 cycles	May 31, 2024
	EN 1815:2016 Method A Static electricity propensity	≤2.0KV, passed	May 31, 2024
	BS 7976-2:2002+A1:2013 Slip Test	KT 2.0 #19 emboss Dry 60, Wet 32	May 31, 2024
	DIN EN 16165:2023-02 Annex B Slip Test	KT 2.0 #19 emboss R9 (9.7 drgree)	May 31, 2024
	EN 14372:2004 Diisononyl Phthalate (DINP)	0.010%	Jun 11, 2024

	EN 71-3:2019+A1:2021 Migration of certain elements	Passed	Jun 11, 2024
	SGS In-House method SVHC Test	SVHC ≤ 0.1%(w/w), passed	Jun 11, 2024
	ISO 16000-9:2006 / Cor1:2007	TVOC, SVOC not detectable	Jul 05, 2024
	EN 660-2:1999+A1:2003 Wear Resistance	Passed, Group T	May 31, 2024

Table 3 LLT resilient flooring specifications

Attribute	Comment	Date
Density	1900 kg/m ³	2024.02
Product thickness	5mm	
Product weight	9.4 kg/m ²	

Note: Specifications are current at time of publishing. Please check currency of specifications with manufacturer.

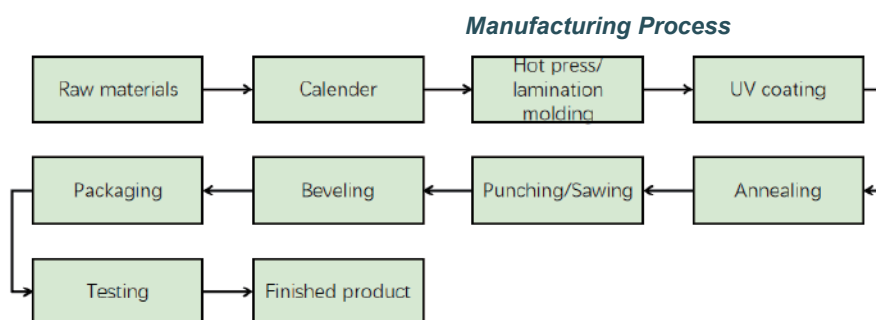


Figure 2. LLT resilient flooring Cradle to Gate System Boundary

Product Components

In product content listed below the % mass has a $\pm 5\%$ range and a confidence interval that is 90% certain to contain true population means at any time. Listing such 90 $\pm 5\%$ certainty considers normal resource acquisition, supply chain, sedimentation, seasonal, manufacturing and product colour variation over this EPD's 5-year validity period. This also allows for intellectual property protection whilst ensuring fullest possible transparency.

Table 4 List of key components and additives by function, type, key operation, source and amount

Function	Component	Source	Amount
Fillers	CaCO ₃	China	50-75%
Binder	PVC	Taiwan, China	35-45%
Plasticizer	DOTP	China	10-15%
Backing	PRINTING FILMS	China	0-5%
Backing	Glass fiber (only for LLT flooring)	China	0-5%
Stabilizer	Calcium stearate	China	0-5%
Pigment	Carbon black	China	0-5%
Pigment	UV Lacquer.	China	0-5%
Packing			
Pallet	Wood pallet	China	55-60%
Cardboard caps	Cardboard box	China	35-40%
PET	PET Wrapping Film and Strapping	China	0-5%

materials is assumed at end-of-life.

Table 7 C1-C4 and D Scenario Information

Processes	Unit	LLT Scenario Value
Collection process by type	kg collected separately	9.4
	kg collected with mixed construction waste	0
Recovery system by type	Kg for re-use	0
	Kg for recycling	0
	Kg for energy recovery	0
Safe disposal	Kg or product or material for final disposal	9.4
transportation	km	161

Additional Technical Information

The environmental impact category indicators are also reported based on the CML-IA characterization factors according to EN15804.

No substances required to be reported as hazardous (as determined under the Resource Conservation and Recovery Act (RCRA (EPA, n.d.)) are associated with the production of flooring.

Additional Environmental Information

The flooring products in this EPD comply with the Indoor Air Comfort GOLD requirements. Low VOC cleaning materials are available for use in maintaining flooring.

Product Results

Table 8 LCA impact indicators, resource use, waste and other measured flows

Acronyms, methods and units of impact potentials plus inventory inputs and outputs, are defined below:

Impact Potentials	Acronym	Description of Methods	Units
Climate Change biogenic	GWP _{bio}	GWP biogenic [7]	kg CO _{2eq}
Climate Change luluc	GWP _{luluc}	GWP land use & change [7]	kg CO _{2eq}
Climate Change fossil	GWP _{ff}	GWP fossil fuels [7]	kg CO _{2eq}
Climate Change total	GWP _t	Global Warming Potential [7]	kg CO _{2eq}

Stratospheric Ozone Depletion	ODP	Stratospheric Ozone Loss [8]	kg CFC _{11eq}
Photochemical Ozone Creation	POCP	Summer Smog [9]	kg NMOC _{eq}
Acidification Potential	AP	Accumulated Exceedance [10]	mol H ⁺ _{eq}
Eutrophication Freshwater	EP _{fresh}	Excess nutrients freshwater [11]	kg Po _{4eq}
Eutrophication Marine	EP _{marine}	Excess marine nutrients [11]	kg N _{eq}
Eutrophication Terrestrial	EP _{land}	Excess Terrestrial nutrients [11]	mol N _{eq}
Mineral & Metal Depletion ¹	ADP _{min}	Abiotic Depletion minerals [12]	kg Sb _{eq}
Fossil Fuel Depletion ¹	ADP _{ff}	Abiotic Depletion fossil fuel [13]	MJ _{ncv}
Water Depletion ¹	WDP	Water Deprivation Scarcity [14,15]	m ³ _{WDP eq}
Particulate Matter Emissions	PM	SETAC-UNE [26]	Disease incidence
Ionizing Radiation, Human Health ²	IRP	Human health effect model [27]	kBq U235 eq
Eco-toxicity (freshwater) ¹	ETP-fw	USEtox [28]	CTU _e
Human toxicity, cancer effects ¹	HTP-c	USEtox [28]	CTU _h
Human toxicity, non-cancer effects ¹	HTP-nc	USEtox [28]	CTU _h
Land use related impacts/ Soil quality ¹	SQP	Soil quality index	dimensionless
Resource Use	Acronym	Units	
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ _{NCV}	
Use of renewable primary energy resources used as raw materials	PERM	MJ _{NCV}	
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	PERT	MJ _{NCV}	
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ _{NCV}	
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ _{NCV}	

¹ The results of this environmental impact indicator shall be used with care as uncertainties on these results are high or as there is limited experience with the indicator.

² 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 nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	PENRT	MJ _{NCV}
Use of secondary material	SM	kg
Use of renewable secondary fuels	RSF	MJ _{NCV}
Use of non-renewable secondary fuels	NRSF	MJ _{NCV}
Use of net fresh water	FW	m ³
Waste Type	Acronym	Units
Hazardous waste disposed	HWD	kg
Non-hazardous waste disposed	NHWD	kg
Radioactive waste disposed	RWD	kg
Other Outputs	Acronym	Units
Components for re-use	CRU	kg
Materials for recycling	MFR	kg
Materials for energy recovery	MER	kg
Exported energy	EE	Mj _{pec}

Note: MJ_{NCV} is MJ, net calorific value, Mj_{pec} is Mj, per energy carrier

Cradle to Gate + modules C1–C4 and module D Inventory

Table 2 Inventory Resource Use Results/1 m²-LLT flooring

		Product stage	End of life stage				Resource recovery stage
		A1-A3	C1	C2	C3	C4	D
Module Codes	Unit	Production	De-construction demolition	Transport	Waste processing	Disposal	Reuse, Recovery, Recycling
GWP-total	kg CO ₂ eq	2.69E+01	0.00E+00	1.44E-01	0.00E+00	9.53E-01	0.00E+00
GWP-luluc	kg CO ₂ eq	1.83E-02	0.00E+00	7.51E-05	0.00E+00	9.29E-05	0.00E+00
GWP-biogenic	kg CO ₂ eq	5.05E-02	0.00E+00	3.92E-05	0.00E+00	7.54E-05	0.00E+00
GWP-fossil	kg CO ₂ eq	2.68E+01	0.00E+00	1.44E-01	0.00E+00	9.53E-01	0.00E+00
ADP-fossil	MJ, net calorific value	4.63E+02	0.00E+00	2.07E+00	0.00E+00	2.48E+00	0.00E+00
ADP-minerals & metals	kg Sb eq.	2.22E-04	0.00E+00	4.48E-07	0.00E+00	2.55E-07	0.00E+00
EP-freshwater	kg P eq.	4.64E-03	0.00E+00	1.20E-05	0.00E+00	1.67E-05	0.00E+00
POCP	kg NMVOC eq.	8.42E-02	0.00E+00	9.46E-04	0.00E+00	1.33E-03	0.00E+00
AP	mol H+eq.	1.16E-01	0.00E+00	6.86E-04	0.00E+00	8.52E-04	0.00E+00
EP-terrestrial	mol N eq	2.36E-01	0.00E+00	2.78E-03	0.00E+00	3.27E-03	0.00E+00
EP-marine	kg N eq.	2.22E-02	0.00E+00	2.59E-04	0.00E+00	2.01E-02	0.00E+00
ODP	kg CFC 11 eq.	1.14E-05	0.00E+00	2.23E-09	0.00E+00	2.64E-09	0.00E+00
WDP	m ³ world eq	7.54E+00	0.00E+00	1.01E-02	0.00E+00	1.48E-02	0.00E+00

See table 8 for additional information

Table 5 Optional Indicators -LLT flooring

		Product stage	End of life stage				Resource recovery stage
		A1-A3	C1	C2	C3	C4	D
Module Codes	Unit	Production	De-construction demolition	Transport	Waste processing	Disposal	Reuse, Recovery, Recycling
ETP-fw	CTUe	1.21E+02	0.00E+00	1.13E+00	0.00E+00	4.71E+00	0.00E+00
HTP-c	CTUh	2.32E-08	0.00E+00	7.58E-11	0.00E+00	7.12E-11	0.00E+00
HTP-nc	CTUh	1.77E-06	0.00E+00	1.61E-09	0.00E+00	2.59E-09	0.00E+00
SQP	dimensionless	1.13E+02	0.00E+00	1.54E+00	0.00E+00	5.46E+00	0.00E+00
PM	Disease incidence	5.71E-06	0.00E+00	1.39E-08	0.00E+00	1.72E-08	0.00E+00
IRP	kBq U235 eq	1.18E+00	0.00E+00	1.85E-03	0.00E+00	3.89E-03	0.00E+00

See table 8 for additional information

Table 8 Resource Use and other environmental flows -LLT

		Product stage	End of life stage				Resource recovery stage
		A1-A3	C1	C2	C3	C4	D
		Production	De-construction demolition	Transport	Waste processing	Disposal	Reuse, Recovery, Recycling
Resource Use	Unit						
PERE	MJ _{NCV}	2.14E+01	0.00E+00	2.71E-02	0.00E+00	5.14E-02	MNR
PERM	MJ _{NCV}	1.19E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MNR
PERT	MJ _{NCV}	3.33E+01	0.00E+00	2.71E-02	0.00E+00	5.14E-02	MNR
PENRE	MJ _{NCV}	3.24E+02	0.00E+00	2.07E+00	0.00E+00	2.48E+00	MNR
PENRM	MJ _{NCV}	1.39E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MNR
PENRT	MJ _{NCV}	4.63E+02	0.00E+00	2.07E+00	0.00E+00	2.48E+00	MNR
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MNR
RSF	MJ _{NCV}	9.43E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MNR
NRSF	MJ _{NCV}	6.64E+01	0.00E+00	1.20E+00	0.00E+00	0.00E+00	MNR
FW	m ³	1.22E-01	0.00E+00	1.32E-04	0.00E+00	3.86E-04	MNR
Waste	Unit						
HWD	kg	1.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MNR
NHWD	kg	1.17E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MNR
RWD	kg	5.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MNR
Outputs	Unit						
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MNR
MFR	kg	1.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MNR
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MNR
EE	MJ _{pec}	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MNR

See table 8 for additional information

Table 18 Biogenic Carbon at Factory Gate (A1-A3)

Biogenic Carbon	Unit	LLT
Biogenic carbon content in product	Kg C ³	0
Biogenic carbon content in accompanying	Kg C	0.7587

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

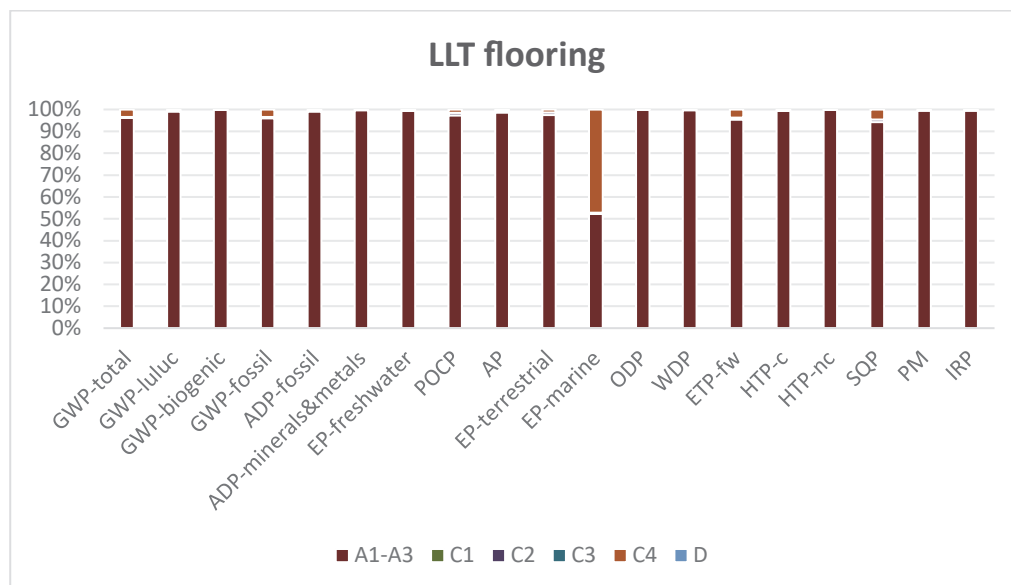


Figure 5. LLT flooring each stage contribution to LCA results

For the indicator EP-marine, the high contribution of the C4 phase compared to other indicators is due to direct emissions such as total organic carbon during waste disposal (treatment of waste plastic, mixture, sanitary landfill).

The wastewater generated from the used water is divided into two parts. One part needs to be discharged after WWT wastewater treatment, and the other part is directly discharged into the municipal wastewater system. Therefore this part is not included in the inventory.

The LCA study has been carried out based on available data, information, regional and global knowledge and experience to achieve more possible accuracy, completeness and representative of the results.

G.T.Floor B.V.



Manufacturer Ingredients Declaration

July 1st, 2025

To whom it may concerns,

We here by confirm that the following ingredients are not used in the production for all specifications of our LVT, Looselay and SPC flooring collections in compliance with the AgBB scheme:

- SVHC < 0.1%
- CMR substances (categories 1A/1B) < 0.1%
- Reprotoxic phthalates < 0.1%
- Tin, cadmium, or lead-based stabilizers
- Chlorinated paraffins (SCCP, MCCP, LCCP) < 0.1%

These collections include but are not limited to *Authentic Mood, Authentic Mood 30, Authentic Mood 55, Authentic Mood 55 Click, Essential Discovery, Grand Class, Master Collection, Master Trend, Modern Vintage, Modern Vintage Chic, Modern Vintage Smart, Natural Perfection, Nature Fit 30/55, Nature Fit 30/55 Stark, Nature Living, New Square, New Square Piazza, Performance 50/70 XL, Performance 50/70 XXL, Performance 55/70, Performance XL, Performance XXL, Prime Inspiration, Prime Inspiration Click, Pure and Powerful 30, Pure and Powerful 55, Pure Plaza, Pure Spectra 30/55, Royal Touch, Silent Elegance, Solid Essence Collection, Stone Design, Stylish Grid, Tierra Nueva, True Hive, True Spirit, Wood Design, Young Living*

Sincerely,

A handwritten signature in blue ink, appearing to read "Peter Lin", is written over a large, faint, light-blue circular watermark.

Peter Lin, Director
G.T. Floor B.V.