



# SHI-PRODUKTPASS

Produkte finden - Gebäude zertifizieren

SHI-Produktpass-Nr.:

**14326-10-1012**

## Organic Clever Silent

Warengruppe: ORCA



Kronoflooring GmbH  
Mühlbacher Straße 1  
01561 Lampertswalde



### Produktqualitäten:



*Köttner*

**Helmut Köttner**  
Wissenschaftlicher Leiter  
Freiburg, den 07.03.2025



## Inhalt

|                                                                                                                        |   |
|------------------------------------------------------------------------------------------------------------------------|---|
|  SHI-Produktbewertung 2024            | 1 |
|  Qualitätssiegel Nachhaltiges Gebäude | 2 |
|  EU-Taxonomie                         | 3 |
|  DGNB Neubau 2023                     | 4 |
|  BNB-BN Neubau V2015                  | 5 |
|  BREEAM DE Neubau 2018                | 6 |
| Produktsiegel                                                                                                          | 7 |
| Rechtliche Hinweise                                                                                                    | 8 |
| Technisches Datenblatt/Anhänge                                                                                         | 9 |

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.





Produkt:

**Organic Clever Silent**

SHI Produktpass-Nr.:

**14326-10-1012**



## 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 | Bewertung         |
|------------------------|------------------|-------------------|
| SHI-Produktbewertung   | Bodenbeläge      | Schadstoffgeprüft |
| Gültig bis: 05.02.2027 |                  |                   |



Produkt:

**Organic Clever Silent**

SHI Produktpass-Nr.:

**14326-10-1012**



## Qualitätssiegel Nachhaltiges Gebäude

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

| Kriterium                                          | Pos. / Bauproduktgruppe                                                                             | Betrachtete Stoffe                       | QNG Freigabe |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------|--------------|
| 3.1.3<br>Schadstoffvermeidung in<br>Baumaterialien | 2.3 Mehrschichtiges Holzparkett,<br>Bambusbeläge und Bodenbeläge<br>auf Holzwerkstoff-Trägerplatten | VOC / Emissionen /<br>gefährliche Stoffe | QNG-ready    |

**Nachweis:** Blauer Engel Zertifikat vom 14.06.2023

**Bewertungsdatum:** 03.06.2024

| Kriterium                              | Bewertung                                 |
|----------------------------------------|-------------------------------------------|
| ANF2-WG1 Nachhaltige Materialgewinnung | Kann Gesamtbewertung positiv beeinflussen |

**Nachweis:** PEFC Zertifikat vom 23.08.2022

**Bewertungsdatum:** 03.06.2024



Produkt:

**Organic Clever Silent**

SHI Produktpass-Nr.:

**14326-10-1012**



## 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: TÜV PROFICERT-product Interior PREMIUM vom 02.02.2024 |                                                                |                                                                    |                      |
| Bewertungsdatum: 12.06.2024                                     |                                                                |                                                                    |                      |



Produkt:

**Organic Clever Silent**

SHI Produktpass-Nr.:

**14326-10-1012**



## DGNB Neubau 2023

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

| Kriterium                                               | Pos. / Relevante Bauteile /<br>Bau-Materialien / Flächen | Betrachtete Stoffe /<br>Aspekte | Qualitätsstufe    |
|---------------------------------------------------------|----------------------------------------------------------|---------------------------------|-------------------|
| ENV 1.2 Risiken für die<br>lokale Umwelt                | 47c Holzwerkstoffe bei<br>Bodenbelägen                   | Formaldehyd                     | Qualitätsstufe: 4 |
| <b>Nachweis:</b> Blauer Engel Zertifikat vom 14.06.2023 |                                                          |                                 |                   |
| <b>Bewertungsdatum:</b> 03.06.2024                      |                                                          |                                 |                   |

| Kriterium                                       | Bewertung                                 |
|-------------------------------------------------|-------------------------------------------|
| SOC 1.2 Innenraumluftqualität                   | Kann Gesamtbewertung positiv beeinflussen |
| <b>Nachweis:</b> PEFC Zertifikat vom 23.08.2022 |                                           |
| <b>Bewertungsdatum:</b> 03.06.2024              |                                           |

| Kriterium                                             | Qualitätsstufe                            |
|-------------------------------------------------------|-------------------------------------------|
| ENV 1.3 Verantwortungsbewusste<br>Ressourcengewinnung | Kann Gesamtbewertung positiv beeinflussen |
| <b>Nachweis:</b> PEFC Zertifikat vom 23.08.2022       |                                           |
| <b>Bewertungsdatum:</b> 03.06.2024                    |                                           |



Produkt:

**Organic Clever Silent**

SHI Produktpass-Nr.:

**14326-10-1012**



## **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                                       | Bewertung                                 |
|-------------------------------------------------|-------------------------------------------|
| 1.1.7 Nachhaltige Materialgewinnung             | Kann Gesamtbewertung positiv beeinflussen |
| <b>Nachweis:</b> PEFC Zertifikat vom 23.08.2022 |                                           |
| <b>Bewertungsdatum:</b> 03.06.2024              |                                           |

| Kriterium                                               | Pos. / Bauprodukttyp                              | Betrachtete Schadstoffgruppe | Qualitätsniveau   |
|---------------------------------------------------------|---------------------------------------------------|------------------------------|-------------------|
| 1.1.6 Risiken für die lokale Umwelt                     | zB Bodenbeläge aus Holzwerkstoffen – auch Systeme | VOC / gefährliche Stoffe     | Qualitätsniveau 5 |
| <b>Nachweis:</b> Blauer Engel Zertifikat vom 14.06.2023 |                                                   |                              |                   |
| <b>Bewertungsdatum:</b> 03.06.2024                      |                                                   |                              |                   |



Produkt:

**Organic Clever Silent**

SHI Produktpass-Nr.:

**14326-10-1012**



## **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                                      | Holzwerkstoffe   | Emissionen: Formaldehyd, TVOC, TSVOC, Krebserregende Stoffe | herausragende Qualität |
| <b>Nachweis:</b> TÜV PROFICERT-product Interior PREMIUM vom 02.02.2024 |                  |                                                             |                        |
| <b>Bewertungsdatum:</b> 03.06.2024                                     |                  |                                                             |                        |



Produkt:

**Organic Clever Silent**

SHI Produktpass-Nr.:

**14326-10-1012**



## 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.



Der vom Umweltbundesamt als Zeichengeber und vom RAL e.V. als verantwortliche Prüforganisation verliehene „Blaue Engel“ ist eines der ältesten und in Deutschland das am häufigsten vorkommende Umweltzeichen. Den „Blauen Engel“ gibt es in zahlreichen Ausprägungen für die unterschiedlichsten Produktgruppen. Die zugrunde liegenden Prüfkriterien der jeweiligen Umweltzeichen (UZ) sollten in gesundheitlicher Hinsicht individuell betrachtet werden, da es durchaus Unterschiede in der Relevanz und Strenge gibt.



"TÜV PROFICERT-product Interior" ist ein für Produkte des Innenraums entwickeltes Zertifizierungsverfahren. Die Zertifizierung erfolgt unter Gesundheitskriterien, zusätzlich ist eine Prüfung der Produktqualität möglich. Die Premiumversion erfordert ein besonders niedriges Emissionsverhalten.



Auch hier werden Hölzer und Holzprodukte aus nachhaltiger Forstwirtschaft ausgezeichnet. Laut Umweltverbänden sind die Anforderungen nicht ganz so hoch wie beim FSC. Auch hier spielen gesundheitliche Kriterien keine Rolle.



Produkt:

**Organic Clever Silent**

SHI Produktpass-Nr.:

**14326-10-1012**



## 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-haus.de/de/Sentinel-Haus/Qualitaet/Qualitaeten-Pruefkriterien>

---

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



### Herausgeber

Sentinel Holding Institut GmbH  
Bötzingen Str. 38  
79111 Freiburg im Breisgau  
Tel.: +49 761 59048170  
[info@sentinel-holding.eu](mailto:info@sentinel-holding.eu)  
[www.sentinel-holding.eu](http://www.sentinel-holding.eu)

## Technisches Datenblatt ORGANIC CLEVER SILENT - 6+1 mm (Pad)

Fussboden mit O.R.C.A. Feuchteschutz-Technologie, Beanspruchungsklasse nach EN 13329: **23/32 – AC5**



Wohnbereich  
mit intensiver Nutzung



Gewerblicher Bereich  
mit normaler Nutzung



### DIMENSIONEN

|        |        |                                                                                   |      |                                                                                   |
|--------|--------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|
| Format | Dicke  | 6+1 ± 0,50 mm · dmax - dmin ≤ 0,50 mm                                             |      |                                                                                   |
|        | Länge  | 1288 ± 0,50 mm                                                                    |      |                                                                                   |
|        | Breite | 195 ± 0,10 mm · bmax - bmin ≤ 0,20 mm                                             |      |                                                                                   |
| Profil | längs  | twin clic +                                                                       | quer | 1clic 2go pure +                                                                  |
| Fuge   | längs  |  | quer |  |

### TOLERANZEN

|                  |          |                                            |
|------------------|----------|--------------------------------------------|
| Rechtwinkligkeit | EN 13329 | ≤ 0,20 mm                                  |
| Kantengeradheit  | EN 13329 | ≤ 0,30 mm                                  |
| Querböschung     | EN 13329 | konkav: ≤ 0,15% · konvex: ≤ 0,20%          |
| Längsböschung    | EN 13329 | konkav: ≤ 0,50% · konvex: ≤ 1,00%          |
| Fugenöffnung     | EN 13329 | Mittelwert: ≤ 0,15 mm · Maximum: ≤ 0,20 mm |
| Höhenversatz     | EN 13329 | Mittelwert: ≤ 0,10 mm · Maximum: ≤ 0,15 mm |
| Riegelversatz    |          | ± 2 mm                                     |

### PRÜFUNGEN

|                                                         |              |                                                                          |
|---------------------------------------------------------|--------------|--------------------------------------------------------------------------|
| Abriebbeanspruchung                                     | EN 13329     | AC5 (≥ 6000 Umdr.)                                                       |
| Stoßbeanspruchung                                       | EN 13329     | kleine Kugel ≥ 70 mm · große Kugel ≥ 1000 mm                             |
| Fleckunempfindlichkeit                                  | Gruppe 1 & 2 | Grad 5                                                                   |
|                                                         | Gruppe 3     | ≥ Grad 4                                                                 |
| Stuhlrollenversuch                                      | EN 13329     | keine sichtbaren Veränderungen oder Schäden wie in EN 425:2002 definiert |
| Auswirkung eines Möbelfußes                             | EN 13329     | keine sichtbare Veränderung bei Prüfung mit Fuß Typ 0                    |
| Resteindruck                                            | EN 13329     | ≤ 0,05 mm                                                                |
| Lichteinheit                                            | EN 13329     | Graumaßstabsstufe ≥ 4 bei Typverfärbung 6 des Blaumaßstabes              |
| Maßänderungen nach Änderungen der relativen Luftfeuchte | EN 13329     | längs ≤ 0,9 mm · quer ≤ 0,9 mm                                           |
| Verbindungsfestigkeit                                   | EN 13329     | längs ≥ 1 kN/m · quer ≥ 2 kN/m                                           |
| Abhebefestigkeit                                        | EN 13329     | ≥ 1,25 N/mm²                                                             |

### UMWELTEIGENSCHAFTEN

|                     |          |           |
|---------------------|----------|-----------|
| Formaldehydemission | EN 16516 | Klasse E1 |
|---------------------|----------|-----------|

### PHYSIKALISCHE EIGENSCHAFTEN

|                          |            |                      |
|--------------------------|------------|----------------------|
| Brandverhalten           | EN 13501-1 | Bfl s1               |
| Gleitwiderstand          | EN 13893   | Technische Klasse DS |
| Wärmedurchlasswiderstand | EN 12667   | 0,085 (m²K)/W ± 15%  |

\*Für den Wohnbereich gemäß Garantiebestimmungen unter [www.krono-original.com](http://www.krono-original.com)

Das Datenblatt wird regelmäßig dem Stand der Technik angepasst. Diese Ausgabe ersetzt alle früheren Ausgaben und die ohne Datum.  
Die Gültigkeit beginnt mit der Erstellung. Stand 09/2022

# ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025 / ISO 21930

**Laminate flooring (6-14mm)**

**Kronoflooring GmbH**



**EPD HUB, HUB-1164**

Publishing date 22 February 2024, last updated on 22 February 2024, valid until 22 February 2029.

## GENERAL INFORMATION

### MANUFACTURER

|                 |                                          |
|-----------------|------------------------------------------|
| Manufacturer    | Kronoflooring GmbH                       |
| Address         | Mühlbacher Straße 1; 01561 Lampertswalde |
| Contact details | sustainability@kronospan.de              |
| Website         | www.krono-original.de                    |

### EPD STANDARDS, SCOPE AND VERIFICATION

|                    |                                                                                                                                                                                     |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Program operator   | EPD Hub, hub@epdhub.com                                                                                                                                                             |
| Reference standard | EN 15804+A2:2019 and ISO 14025                                                                                                                                                      |
| PCR                | EPD Hub Core PCR version 1.0, 1 Feb 2022                                                                                                                                            |
| Sector             | Manufactured product                                                                                                                                                                |
| Category of EPD    | Third party verified EPD                                                                                                                                                            |
| Scope of the EPD   | Cradle to gate with options, A4-A5, and modules C1-C4, D                                                                                                                            |
| EPD author         | Daniel Grantham                                                                                                                                                                     |
| EPD verification   | Independent verification of this EPD and data, according to ISO 14025:<br><input type="checkbox"/> Internal certification <input checked="" type="checkbox"/> External verification |
| EPD verifier       | Magaly González Vázquez, as an authorized verifier acting for EPD Hub Limited                                                                                                       |

The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

### PRODUCT

|                                   |                              |
|-----------------------------------|------------------------------|
| Product name                      | Laminate flooring (6 - 14mm) |
| Additional labels                 | -                            |
| Product reference                 | -                            |
| Place of production               | Lampertswalde, Germany       |
| Period for data                   | 01.10.2020 - 30.09.2021      |
| Averaging in EPD                  | No averaging                 |
| Variation in GWP-fossil for A1-A3 | 0 %                          |

### ENVIRONMENTAL DATA SUMMARY

|                                 |          |
|---------------------------------|----------|
| Declared unit                   | m2       |
| Declared unit mass              | 7.516 kg |
| GWP-fossil, A1-A3 (kgCO2e)      | 5.11     |
| GWP-total, A1-A3 (kgCO2e)       | -5.98    |
| Secondary material, inputs (%)  | 12.7     |
| Secondary material, outputs (%) | 100.0    |
| Total energy use, A1-A3 (kWh)   | 62.1     |
| Total water use, A1-A3 (m3e)    | 0.149    |

## PRODUCT AND MANUFACTURER

### ABOUT THE MANUFACTURER

Kronoflooring GmbH is the worldwide leading producer of high-quality laminate floorings and panels. We are represented in DIY stores, the specialist flooring trade as well as in specialist store segments with a wide range of wood-based material products for floors, walls and ceilings.

### PRODUCT DESCRIPTION

Laminate flooring is a floor covering constructed in layers. Instead of real or solid wood, the individual laminate panels are made of a carrier HDF board (3). A thin decorative layer (2) and a robust seal (1) are applied to this and the counteracting layer (4) keeps the board in balance.



Further information can be found at [www.krono-original.de](http://www.krono-original.de).

### PRODUCT RAW MATERIAL MAIN COMPOSITION

| Raw material category | Amount, mass- % | Material origin |
|-----------------------|-----------------|-----------------|
| Metals                | 0               | -               |
| Minerals              | 0               | -               |
| Fossil materials      | 10 - 15         |                 |
| Bio-based materials   | 80 - 85         |                 |
| Moisture Content      | 5               | -               |

### BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

|                                            |       |
|--------------------------------------------|-------|
| Biogenic carbon content in product, kg C   | 2.864 |
| Biogenic carbon content in packaging, kg C | 0.168 |

### FUNCTIONAL UNIT AND SERVICE LIFE

|                        |                |
|------------------------|----------------|
| Declared unit          | m <sup>2</sup> |
| Mass per declared unit | 7.516 kg       |
| Functional unit        | -              |
| Reference service life | -              |

### SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

## PRODUCT LIFE-CYCLE

### SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

| Product stage |           |               | Assembly stage |          | Use stage |             |        |             |               |                        |                       |                  | End of life stage |                  |          |       | Beyond the system boundaries |
|---------------|-----------|---------------|----------------|----------|-----------|-------------|--------|-------------|---------------|------------------------|-----------------------|------------------|-------------------|------------------|----------|-------|------------------------------|
| A1            | A2        | A3            | A4             | A5       | B1        | B2          | B3     | B4          | B5            | B6                     | B7                    | C1               | C2                | C3               | C4       | D     |                              |
| x             | x         | x             | x              | x        | MND       | MND         | MND    | MND         | MND           | MND                    | MND                   | x                | x                 | x                | x        | x     |                              |
| Raw materials | Transport | Manufacturing | Transport      | Assembly | Use       | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | Deconstr./demol. | Transport         | Waste processing | Disposal | Reuse | Recycling                    |

Modules not declared = MND. Modules not relevant = MNR.

### MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

Raw material/energy supply (A1):

The timber supply for laminate flooring is a combination of small round wood not suitable for sawmills and sawmill residues in the form of wood chips. The chemical component is made of resin, wax, hardener, and urea.

The wasted materials are either burnt onsite in our biomass plant, or recycled for use in particleboard production.

Each pack of laminate flooring is packaged in a cardboard box and shrink wrapped and then stacked onto a wooden pallet. A top board made of HDF is used to protect the products, PET banding made from 100% post-consumer recycled plastic is used to strap the packs to the pallet and the entire pallet is stretch wrapped for further protection of the product.

Transportation to manufacturing site (A2):

- Transportation of the timber to the Lampertswalde site (considers both road and rail deliveries).
- Transportation of chemicals and packaging from manufacturer/supplier to the production site.
- Transportation of raw paper from manufacturer/supplier.

Manufacturing (A3):

The proper manufacturing of the boards and treatment of waste generated from the manufacturing process up to the end-of waste state during manufacturing is included in module A3.

All installation waste is modelled as leaving the system in A3. German Government figures have been used for determining the rates of recycling

### TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

Transport (A4):

This covers the 2397 km average distance travelled from site to customer, which is done by EURO 6 32t lorry.

#### Installation (A5):

Installation is done manually with no need for additional materials or energy.

#### Of the packaging materials:

- Wooden pallet assumed 21% are re-used and remaining 79% are then chipped either for recycling or for use as secondary fuel for energy recovery. The split has been attributed from national recycling figures published for 2020.
- Plastic (shrink wrap / stretch wrap / PET banding) assumed 60.4% recycled (from national recycling figures 2020) whilst the remaining amount is sent for energy recovery.
- Cardboard packaging assumed 89.4% recycled (from national recycling figures, 2020) and the remaining amount is assumed to be sent for energy recovery.

### PRODUCT USE AND MAINTENANCE (B1-B7)

This EPD does not cover the use phase.

Air, soil, and water impacts during the use phase have not been studied.

### PRODUCT END OF LIFE (C1-C4, D)

#### Module C1:

Disassembly is done by hand at use-site, therefore creating no additional loads.

#### Module C2:

The material is transported to waste treatment site, which is assumed to be within 50km, of the local waste collection centre and treated as municipal wood waste.

#### Module C3:

The scenario at the end of life assumes use as secondary fuel for energy recovery of the product. The end-of-waste status for the wood board is achieved at the waste treatment site.

#### Module C4:

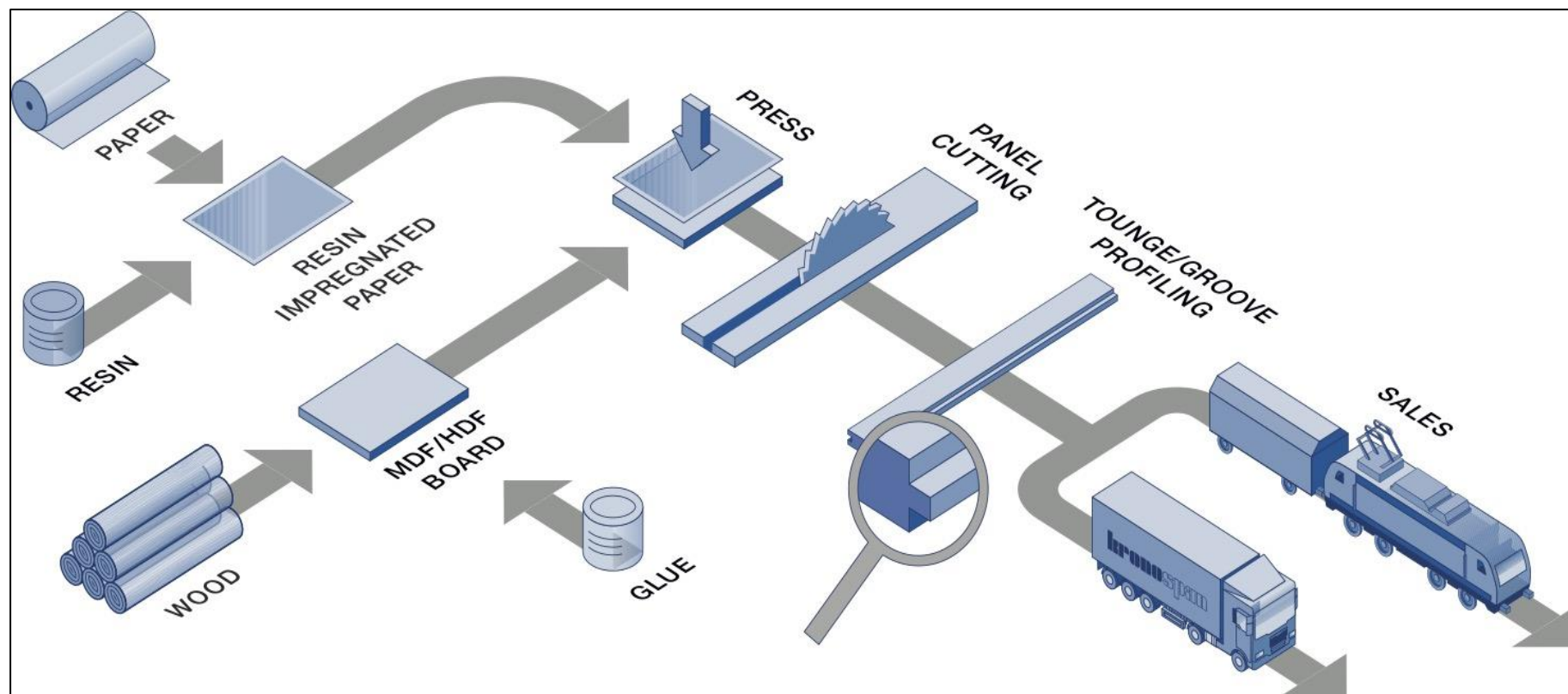
Within the EoL scenario no disposal to landfill will occur, thus this module will show Zero values.

#### Module D:

The benefits for the secondary fuel will be calculated and shown in module D. The utilization of the boards in an incineration plant and the resulting energy is assigned to module D.

It is also assumed that the energy production from biomass meets an R1 value > 0.6. Energy produced in the form of electricity and thermal energy replaces thermal energy from natural gas (DE) and electrical energy (DE).

## MANUFACTURING PROCESS



Water, water vapour and high pressure soften the wood chips. These are then pressed through a grinder which breaks up the wood fibres. The moist wood fibres are glued and transported to a drier. The glued and dried wood fibres are scattered onto a conveyor belt. The fibres bond with the glue at a compression temperature of 200 °C to form a homogeneous board. After pressing, the hot boards are cooled and then transported automatically to a storage area.

When impregnating the paper, rollers and doctor blades ensure the even or asymmetrical application of resin to one or both sides. The impregnated paper is then conveyed through a drying channel. Pre-arranged packages

with abrasion proof overlay, decor paper, base board and counteracting paper are put into the press. Heat and pressure liquefy the resin in the press and bond the papers and base board together to form a solid unit.

Longitudinal and latitudinal saws cut the large format boards into individual panels along the markings on the decor paper. Tongue and groove profiles are cut into the edges of the panels.

The panels are stacked in boxes and wrapped in moisture-repellent foil which are then transported to customer by either road or rail.

## LIFE-CYCLE ASSESSMENT

### CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

### ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

| Data type                      | Allocation    |
|--------------------------------|---------------|
| Raw materials                  | No allocation |
| Packaging materials            | No allocation |
| Ancillary materials            | No allocation |
| Manufacturing energy and waste | No allocation |

### AVERAGES AND VARIABILITY

|                                   |                |
|-----------------------------------|----------------|
| Type of average                   | No averaging   |
| Averaging method                  | Not applicable |
| Variation in GWP-fossil for A1-A3 | 0 %            |

This EPD is product and factory specific and does not contain average calculations.

### LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. Ecoinvent v3.8 and One Click LCA databases were used as sources of environmental data.

# ENVIRONMENTAL IMPACT DATA

## CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

| Impact category                     | Unit                   | A1        | A2       | A3        | A1-A3     | A4       | A5       | B1  | B2  | B3  | B4  | B5  | B6  | B7  | C1  | C2       | C3       | C4       | D         |
|-------------------------------------|------------------------|-----------|----------|-----------|-----------|----------|----------|-----|-----|-----|-----|-----|-----|-----|-----|----------|----------|----------|-----------|
| GWP – total <sup>1)</sup>           | kg CO <sub>2</sub> e   | -7,73E+00 | 7,11E-02 | 1,67E+00  | -5,98E+00 | 1,64E+00 | 6,30E-01 | MND | MND | MND | MND | MND | MND | MND | MNR | 6,53E-02 | 1,06E+01 | 0,00E+00 | -4,65E-01 |
| GWP – fossil                        | kg CO <sub>2</sub> e   | 2,76E+00  | 7,11E-02 | 2,28E+00  | 5,11E+00  | 1,64E+00 | 1,77E-02 | MND | MND | MND | MND | MND | MND | MND | MNR | 6,53E-02 | 6,18E-02 | 0,00E+00 | -4,62E-01 |
| GWP – biogenic                      | kg CO <sub>2</sub> e   | -1,05E+01 | 0,00E+00 | -6,12E-01 | -1,11E+01 | 0,00E+00 | 6,12E-01 | MND | MND | MND | MND | MND | MND | MND | MNR | 0,00E+00 | 1,05E+01 | 0,00E+00 | 0,00E+00  |
| GWP – LULUC                         | kg CO <sub>2</sub> e   | 1,42E-02  | 2,66E-05 | 3,17E-03  | 1,74E-02  | 6,37E-04 | 4,08E-06 | MND | MND | MND | MND | MND | MND | MND | MNR | 2,66E-05 | 1,40E-04 | 0,00E+00 | -3,10E-03 |
| Ozone depletion pot.                | kg CFC <sub>11</sub> e | 4,73E-07  | 1,65E-08 | 1,24E-07  | 6,13E-07  | 3,86E-07 | 9,03E-10 | MND | MND | MND | MND | MND | MND | MND | MNR | 1,44E-08 | 3,13E-09 | 0,00E+00 | -2,26E-07 |
| Acidification potential             | mol H <sup>+</sup> e   | 1,58E-02  | 2,83E-04 | 1,78E-02  | 3,39E-02  | 5,34E-03 | 9,34E-05 | MND | MND | MND | MND | MND | MND | MND | MNR | 2,70E-04 | 3,32E-04 | 0,00E+00 | -1,52E-02 |
| EP-freshwater <sup>2)</sup>         | kg Pe                  | 1,63E-04  | 5,88E-07 | 2,79E-04  | 4,42E-04  | 1,39E-05 | 1,47E-07 | MND | MND | MND | MND | MND | MND | MND | MNR | 5,50E-07 | 6,36E-06 | 0,00E+00 | -4,30E-05 |
| EP-marine                           | kg Ne                  | 3,64E-03  | 7,94E-05 | 1,66E-03  | 5,38E-03  | 1,17E-03 | 4,00E-05 | MND | MND | MND | MND | MND | MND | MND | MNR | 7,88E-05 | 4,67E-05 | 0,00E+00 | -4,67E-03 |
| EP-terrestrial                      | mol Ne                 | 4,14E-02  | 8,77E-04 | 6,91E-02  | 1,11E-01  | 1,30E-02 | 4,56E-04 | MND | MND | MND | MND | MND | MND | MND | MNR | 8,69E-04 | 5,27E-04 | 0,00E+00 | -7,42E-02 |
| POCP (“smog”) <sup>3)</sup>         | kg NMVOCe              | 1,13E-02  | 2,91E-04 | 3,74E-03  | 1,54E-02  | 5,05E-03 | 1,21E-04 | MND | MND | MND | MND | MND | MND | MND | MNR | 2,65E-04 | 1,48E-04 | 0,00E+00 | -1,31E-02 |
| ADP-minerals & metals <sup>4)</sup> | kg Sbe                 | 4,11E-05  | 1,68E-07 | 5,04E-06  | 4,63E-05  | 3,99E-06 | 4,62E-08 | MND | MND | MND | MND | MND | MND | MND | MNR | 2,27E-07 | 1,71E-07 | 0,00E+00 | -1,69E-06 |
| ADP-fossil resources                | MJ                     | 6,22E+01  | 1,08E+00 | 3,39E+01  | 9,72E+01  | 2,57E+01 | 8,11E-02 | MND | MND | MND | MND | MND | MND | MND | MNR | 9,44E-01 | 1,29E+00 | 0,00E+00 | -5,02E+00 |
| Water use <sup>5)</sup>             | m <sup>3</sup> e depr. | 5,83E+00  | 4,83E-03 | 5,31E-01  | 6,36E+00  | 1,15E-01 | 6,39E-03 | MND | MND | MND | MND | MND | MND | MND | MNR | 4,13E-03 | 3,46E-02 | 0,00E+00 | -7,94E-01 |

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO<sub>4</sub>e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. 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 experience with the indicator.

## ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

| Impact category                  | Unit      | A1       | A2       | A3       | A1-A3    | A4       | A5       | B1  | B2  | B3  | B4  | B5  | B6  | B7  | C1  | C2       | C3       | C4       | D         |
|----------------------------------|-----------|----------|----------|----------|----------|----------|----------|-----|-----|-----|-----|-----|-----|-----|-----|----------|----------|----------|-----------|
| Particulate matter               | Incidence | 1,36E-07 | 8,17E-09 | 1,17E-07 | 2,61E-07 | 1,86E-07 | 9,58E-10 | MND | MND | MND | MND | MND | MND | MND | MNR | 5,55E-09 | 1,25E-09 | 0,00E+00 | -2,07E-07 |
| Ionizing radiation <sup>6)</sup> | kBq U235e | 2,06E-01 | 5,15E-03 | 3,36E-01 | 5,47E-01 | 1,23E-01 | 7,91E-04 | MND | MND | MND | MND | MND | MND | MND | MNR | 4,39E-03 | 3,42E-02 | 0,00E+00 | -2,52E-02 |
| Ecotoxicity (freshwater)         | CTUe      | 9,61E+01 | 9,69E-01 | 1,93E+01 | 1,16E+02 | 2,28E+01 | 1,32E-01 | MND | MND | MND | MND | MND | MND | MND | MNR | 8,70E-01 | 7,78E-01 | 0,00E+00 | -1,40E+02 |
| Human toxicity, cancer           | CTUh      | 3,11E-09 | 2,38E-11 | 1,09E-09 | 4,22E-09 | 5,59E-10 | 7,42E-11 | MND | MND | MND | MND | MND | MND | MND | MNR | 2,44E-11 | 3,81E-11 | 0,00E+00 | -1,95E-09 |
| Human tox. non-cancer            | CTUh      | 5,48E-08 | 9,52E-10 | 2,21E-08 | 7,78E-08 | 2,20E-08 | 3,26E-10 | MND | MND | MND | MND | MND | MND | MND | MNR | 8,10E-10 | 7,72E-10 | 0,00E+00 | -7,19E-08 |
| SQP <sup>7)</sup>                | -         | 4,18E+02 | 1,24E+00 | 3,81E+01 | 4,57E+02 | 2,95E+01 | 6,12E-02 | MND | MND | MND | MND | MND | MND | MND | MNR | 6,54E-01 | 1,99E-01 | 0,00E+00 | -2,98E+02 |

6) EN 15804+A2 disclaimer for ionizing radiation, human health. 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; 7) SQP = Land use related impacts/soil quality.

## USE OF NATURAL RESOURCES

| Impact category                    | Unit           | A1       | A2       | A3       | A1-A3    | A4       | A5        | B1  | B2  | B3  | B4  | B5  | B6  | B7  | C1  | C2       | C3        | C4       | D         |
|------------------------------------|----------------|----------|----------|----------|----------|----------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----------|----------|-----------|
| Renew. PER as energy <sup>8)</sup> | MJ             | 7,61E+01 | 1,22E-02 | 7,15E+00 | 8,33E+01 | 2,89E-01 | 7,48E-03  | MND | MND | MND | MND | MND | MND | MND | MNR | 1,11E-02 | 2,23E-01  | 0,00E+00 | -6,92E+01 |
| Renew. PER as material             | MJ             | 7,08E+01 | 0,00E+00 | 5,02E+00 | 7,58E+01 | 0,00E+00 | -5,02E+00 | MND | MND | MND | MND | MND | MND | MND | MNR | 0,00E+00 | -7,08E+01 | 0,00E+00 | 0,00E+00  |
| Total use of renew. PER            | MJ             | 1,47E+02 | 1,22E-02 | 1,22E+01 | 1,59E+02 | 2,89E-01 | -5,01E+00 | MND | MND | MND | MND | MND | MND | MND | MNR | 1,11E-02 | -7,06E+01 | 0,00E+00 | -6,92E+01 |
| Non-re. PER as energy              | MJ             | 5,47E+01 | 1,08E+00 | 3,31E+01 | 8,89E+01 | 2,57E+01 | 8,11E-02  | MND | MND | MND | MND | MND | MND | MND | MNR | 9,44E-01 | 1,28E+00  | 0,00E+00 | -4,86E+00 |
| Non-re. PER as material            | MJ             | 7,62E+00 | 0,00E+00 | 7,95E-01 | 8,41E+00 | 0,00E+00 | -7,95E-01 | MND | MND | MND | MND | MND | MND | MND | MNR | 0,00E+00 | -7,62E+00 | 0,00E+00 | 0,00E+00  |
| Total use of non-re. PER           | MJ             | 6,23E+01 | 1,08E+00 | 3,39E+01 | 9,73E+01 | 2,57E+01 | -7,14E-01 | MND | MND | MND | MND | MND | MND | MND | MNR | 9,44E-01 | -6,33E+00 | 0,00E+00 | -4,86E+00 |
| Secondary materials                | kg             | 9,53E-01 | 3,00E-04 | 1,10E-01 | 1,06E+00 | 7,12E-03 | 1,40E-04  | MND | MND | MND | MND | MND | MND | MND | MNR | 3,11E-04 | 4,85E-04  | 0,00E+00 | 4,65E-02  |
| Renew. secondary fuels             | MJ             | 4,74E-03 | 3,02E-06 | 5,15E+01 | 5,15E+01 | 7,18E-05 | 7,04E-07  | MND | MND | MND | MND | MND | MND | MND | MNR | 4,03E-06 | 7,78E-07  | 0,00E+00 | -1,27E-04 |
| Non-ren. secondary fuels           | MJ             | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  | MND | MND | MND | MND | MND | MND | MND | MNR | 0,00E+00 | 0,00E+00  | 0,00E+00 | 0,00E+00  |
| Use of net fresh water             | m <sup>3</sup> | 1,35E-01 | 1,40E-04 | 1,34E-02 | 1,49E-01 | 3,32E-03 | 1,45E-04  | MND | MND | MND | MND | MND | MND | MND | MNR | 1,12E-04 | 1,08E-03  | 0,00E+00 | 1,03E-03  |

8) PER = Primary energy resources.

## END OF LIFE – WASTE

| Impact category     | Unit | A1       | A2       | A3       | A1-A3    | A4       | A5       | B1  | B2  | B3  | B4  | B5  | B6  | B7  | C1  | C2       | C3       | C4       | D         |
|---------------------|------|----------|----------|----------|----------|----------|----------|-----|-----|-----|-----|-----|-----|-----|-----|----------|----------|----------|-----------|
| Hazardous waste     | kg   | 1,22E-01 | 1,43E-03 | 1,42E-01 | 2,65E-01 | 3,38E-02 | 5,53E-04 | MND | MND | MND | MND | MND | MND | MND | MNR | 1,36E-03 | 5,29E-03 | 0,00E+00 | -1,52E-02 |
| Non-hazardous waste | kg   | 2,71E+00 | 2,35E-02 | 1,28E+01 | 1,55E+01 | 5,55E-01 | 2,37E-01 | MND | MND | MND | MND | MND | MND | MND | MNR | 2,17E-02 | 2,88E-01 | 0,00E+00 | -7,75E+00 |
| Radioactive waste   | kg   | 1,07E-04 | 7,24E-06 | 1,11E-04 | 2,25E-04 | 1,73E-04 | 3,94E-07 | MND | MND | MND | MND | MND | MND | MND | MNR | 6,24E-06 | 9,25E-06 | 0,00E+00 | -2,32E-05 |

## END OF LIFE – OUTPUT FLOWS

| Impact category          | Unit | A1       | A2       | A3       | A1-A3    | A4       | A5       | B1  | B2  | B3  | B4  | B5  | B6  | B7  | C1  | C2       | C3       | C4       | D        |
|--------------------------|------|----------|----------|----------|----------|----------|----------|-----|-----|-----|-----|-----|-----|-----|-----|----------|----------|----------|----------|
| Components for re-use    | kg   | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | MND | MND | MND | MND | MND | MND | MND | MNR | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Materials for recycling  | kg   | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 7,69E-02 | MND | MND | MND | MND | MND | MND | MND | MNR | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Materials for energy rec | kg   | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 2,87E-01 | MND | MND | MND | MND | MND | MND | MND | MNR | 0,00E+00 | 7,52E+00 | 0,00E+00 | 0,00E+00 |
| Exported energy          | MJ   | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 2,43E+00 | MND | MND | MND | MND | MND | MND | MND | MNR | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |

## ENVIRONMENTAL IMPACTS – EN 15804+A1, CML / ISO 21930

| Impact category      | Unit                               | A1       | A2       | A3       | A1-A3    | A4       | A5       | B1  | B2  | B3  | B4  | B5  | B6  | B7  | C1  | C2       | C3       | C4       | D         |
|----------------------|------------------------------------|----------|----------|----------|----------|----------|----------|-----|-----|-----|-----|-----|-----|-----|-----|----------|----------|----------|-----------|
| Global Warming Pot.  | kg CO <sub>2</sub> e               | 2,70E+00 | 7,04E-02 | 2,28E+00 | 5,04E+00 | 1,62E+00 | 1,76E-02 | MND | MND | MND | MND | MND | MND | MND | MNR | 6,46E-02 | 6,12E-02 | 0,00E+00 | -4,48E-01 |
| Ozone depletion Pot. | kg CFC <sub>11</sub> e             | 4,06E-07 | 1,30E-08 | 1,08E-07 | 5,27E-07 | 3,05E-07 | 7,51E-10 | MND | MND | MND | MND | MND | MND | MND | MNR | 1,14E-08 | 2,71E-09 | 0,00E+00 | -1,89E-07 |
| Acidification        | kg SO <sub>2</sub> e               | 1,20E-02 | 2,22E-04 | 1,08E-02 | 2,31E-02 | 4,33E-03 | 6,51E-05 | MND | MND | MND | MND | MND | MND | MND | MNR | 2,10E-04 | 2,80E-04 | 0,00E+00 | -9,67E-03 |
| Eutrophication       | kg PO <sub>4</sub> <sup>3</sup> e  | 6,64E-03 | 5,01E-05 | 1,16E-02 | 1,83E-02 | 9,47E-04 | 7,57E-05 | MND | MND | MND | MND | MND | MND | MND | MNR | 4,83E-05 | 2,23E-04 | 0,00E+00 | -4,26E-03 |
| POCP ("smog")        | kg C <sub>2</sub> H <sub>4</sub> e | 1,17E-03 | 9,01E-06 | 2,67E-04 | 1,45E-03 | 2,00E-04 | 2,68E-06 | MND | MND | MND | MND | MND | MND | MND | MNR | 8,55E-06 | 1,21E-05 | 0,00E+00 | -6,14E-04 |
| ADP-elements         | kg Sbe                             | 4,08E-05 | 1,63E-07 | 4,89E-06 | 4,58E-05 | 3,88E-06 | 4,36E-08 | MND | MND | MND | MND | MND | MND | MND | MNR | 2,22E-07 | 1,70E-07 | 0,00E+00 | -1,63E-06 |
| ADP-fossil           | MJ                                 | 6,23E+01 | 1,08E+00 | 3,39E+01 | 9,73E+01 | 2,57E+01 | 8,11E-02 | MND | MND | MND | MND | MND | MND | MND | MNR | 9,44E-01 | 1,28E+00 | 0,00E+00 | -5,02E+00 |

## VERIFICATION STATEMENT

### VERIFICATION PROCESS FOR THIS EPD

This EPD has been verified in accordance with ISO 14025 by an independent, third-party verifier by reviewing results, documents and compliance with reference standard, ISO 14025 and ISO 14040/14044, following the process and checklists of the program operator for:

- This Environmental Product Declaration
- The Life-Cycle Assessment used in this EPD
- The digital background data for this EPD

Why does verification transparency matter? [Read more online](#)

This EPD has been generated by One Click LCA EPD generator, which has been verified and approved by the EPD Hub.

### THIRD-PARTY VERIFICATION STATEMENT

I hereby confirm that, following detailed examination, I have not established any relevant deviations by the studied Environmental Product Declaration (EPD), its LCA and project report, in terms of the data collected and used in the LCA calculations, the way the LCA-based calculations have been carried out, the presentation of environmental data in the EPD, and other additional environmental information, as present with respect to the procedural and methodological requirements in ISO 14025:2010 and reference standard.

I confirm that the company-specific data has been examined as regards plausibility and consistency; the declaration owner is responsible for its factual integrity and legal compliance.

I confirm that I have sufficient knowledge and experience of construction products, this specific product category, the construction industry, relevant standards, and the geographical area of the EPD to carry out this verification.

I confirm my independence in my role as verifier; I have not been involved in the execution of the LCA or in the development of the declaration and have no conflicts of interest regarding this verification.

Magaly González Vázquez, as an authorized verifier acting for EPD Hub Limited

22.02.2024





Preferred by Nature OÜ hereby confirms that  
the Chain of Custody system of

## Kronoflooring GmbH Lampertswalde

Mühlbacher Straße 1  
01561 Lampertswalde  
Germany

has been assessed and certified as meeting the requirements of  
**PEFC ST 2001:2020; PEFC ST 2002:2020**

The certificate is valid from  
24 May 2021 to 23 May 2026  
Certificate version date: 23 August 2022

### Scope of certificate

Certificate type: Single Chain of Custody

### Certificate registration code

PBN-PEFC-COC-054330



Justinas Janulaitis  
Management board member  
Filosoofi 31, Tartu  
Estonia

Preferred by Nature OÜ accreditation is issued by ANAB (Accreditation ID# 9125).

Specific information regarding products and sites is listed in the appendix(es) of this certificate.  
Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required PEFC claim is clearly stated on delivery documents. The physical printed certificate remains the property of Preferred by Nature OÜ and shall be returned upon request.

## Annex A: Scope of Kronoflooring GmbH Lampertswalde PEFC Chain of Custody Certificate

**PBN-PEFC-COC-054330**

| Product Type               | PEFC Claims       | CoC Method          | Input Material Category |
|----------------------------|-------------------|---------------------|-------------------------|
| 050603 - Dämmplatten       | x% PEFC Certified | Physical separation | Certified material      |
| 090304 - Laminatboden      | x% PEFC Certified | Percentage Method   | Certified material      |
| 090304 - Parkett           | x% PEFC Certified | Percentage Method   | Certified material      |
| 090307 - Paneele/Kassetten | x% PEFC Certified | Percentage Method   | Certified material      |
| 090307 - Sockelleisten     | x% PEFC Certified | Percentage Method   | Certified material      |