

# Environmental Product Declaration



In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

## Laminated parquet from 11 to 14 mm (floating installation)

from

**Berryalloc NV**



Programme:

The International EPD® System, [www.environdec.com](http://www.environdec.com)

Programme operator:

EPD International AB

EPD registration number:

EPD-IES-0019860

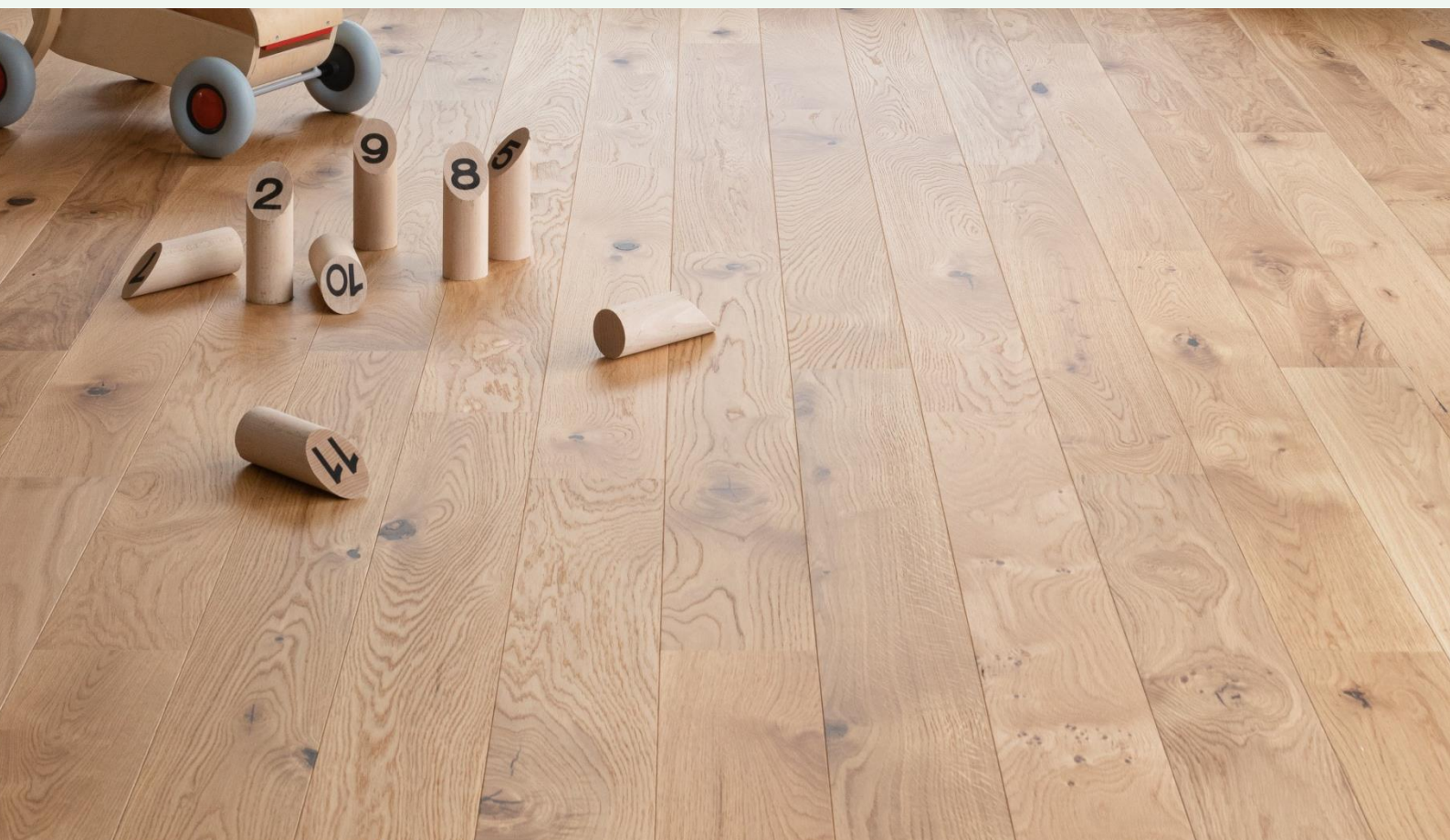
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*An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at [www.environdec.com](http://www.environdec.com)*



## General information

### Programme information

|                   |                                                                     |
|-------------------|---------------------------------------------------------------------|
| <b>Programme:</b> | The International EPD <sup>®</sup> System                           |
| <b>Address:</b>   | EPD International AB<br>Box 210 60<br>SE-100 31 Stockholm<br>Sweden |
| <b>Website:</b>   | <a href="http://www.environdec.com">www.environdec.com</a>          |
| <b>E-mail:</b>    | <a href="mailto:info@environdec.com">info@environdec.com</a>        |

### Accountabilities for PCR, LCA and independent, third-party verification

#### Product Category Rules (PCR)

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)

Product Category Rules (PCR): *PCR 2019:14 Construction products, version 1.3.2*  
*c-PCR-006 WOOD AND WOOD-BASED PRODUCTS FOR USE IN CONSTRUCTION*

PCR review was conducted by: *Technical Committee of the International EPD<sup>®</sup> System. The review panel may be contacted via [info@environdec.com](mailto:info@environdec.com).*

#### Life Cycle Assessment (LCA)

LCA accountability:  
Estéana  
567 rue Maréchal Lyautey  
83220 Le Pradet  
France

#### Third-party verification

Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:

☒ EPD verification by individual verifier

Third-party verifier: Lees-Perasso Étienne, TIDE

Approved by: The International EPD<sup>®</sup> System

Procedure for follow-up of data during EPD validity involves third party verifier:

☐ Yes ☒ No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

## Company information

Owner of the EPD: Berryalloc NV

Industrielaan 100

8930 Menen

Belgium

Contact: Bruno D'Argent / phone: +32 56 52 84 80 / email: [info@berryalloc.com](mailto:info@berryalloc.com)

### Description of the organisation:

BerryAlloc®, with headquarter in Belgium offers a wide array of interior solutions for residential and commercial projects, ranging from laminate, vinyl and parquet floors to wall panels. The extensive BerryAlloc® product range is durable and meets current aesthetic and technical requirements: quality, variety of finishes, durability, longevity and ease of installation. Guided by trends and the latest technological improvements, BerryAlloc also strive to reduce our impact on the environment and grow in a sustainable way as a profitable company.

BerryAlloc® manufactures high-quality wooden floors in its factory in France. A strong commitment to excellence drives continuous investment in product durability and quality to meet the highest standards. A dedicated production team, composed of skilled and passionate professionals, ensures that each real wood floor stands out in craftsmanship and design. As a leading producer of engineered wood flooring in France, BerryAlloc® offers a diverse range of parquet flooring options, varying in size and surface finishes, to suit different styles and preferences. BerryAlloc® is part of the Beaulieu International Group.

### Product-related or management system-related certifications:

The production processes are subject to rigorous controls and monitoring according to management criteria in accordance with the following standards:

- ISO 9001: Quality Management System
- ISO 14001: Environmental Management System
- ISO 45001: Occupational Health and Safety Management System

Name and location of production site(s): The production site covered is Meaulne in France.

## Product information

Product name: Laminated Parquet

### Product identification:

- |                                         |                                     |
|-----------------------------------------|-------------------------------------|
| • BerryAlloc Les Essentiels Regular     | • by berryAlloc Univers Regular     |
| • BerryAlloc Les Essentiels 3-frises    | • by berryalloc Univers XL          |
| • BerryAlloc Les Essentiels XL Long     | • by berryalloc Univers XL Long 2,5 |
| • BerryAlloc Les Essentiels XL          | • by berryalloc Univers XL Long 3,3 |
| • BerryAlloc Les Essentiels S           | • by berryalloc Univers XXL         |
| • BerryAlloc Les Exclusifs XXL          | • by berryalloc Univers XXL Long    |
| • BerryAlloc Les Exclusifs XL Long      | • by berryalloc Univers S           |
| • BerryAlloc Les Exclusifs XXL Long     | • by berryalloc Legend              |
| • BerryAlloc Les Exclusifs Regular Long |                                     |

Product description: Laminated Parquet is a wooden floor covering with a total thickness of between 11 and 14 mm. Laminated Parquet is made up of an oak veneer, a HDF panel core and a wood backing. This EPD only covers floating installations.

UN CPC code: 31600, Builders' joinery and carpentry of wood (including cellular wood panels, assembled parquet panels, shingles and shakes)

Geographical scope: The products are manufactured in France (A3). The raw materials are produced and transported from France and Europe (A1-A2). The distribution, construction, use and end-of-life were modelled based on the French market (A4-A5; B1-B7; C1-C4 and D).

## LCA information

Functional unit: To cover one square metre of interior flooring with laminate parquet for a reference service life of 50 years.

Reference service life: 50 years

Time representativeness: Data for the production process, the transport of raw materials (A2) and the transport to construction sites is based on average data for the production year 2022.

Database(s) and LCA software used: The background data are based on ecoinvent 3.9.1 (system model: allocation, cut-off, EN 15804 ), released in 2022.

Description of system boundaries: Cradle to grave and module D (A + B + C + D).

The system boundaries have been set in compliance with NF EN 15804+A2, in particular with the 'modularity' principle (processes are assigned to the module in which they take place) and the 'polluter pays' principle (waste treatment processes are assigned to the processes that generate the waste).

Cut-off criteria: The cut-off rules set out in standard NF EN 15804+A2 have also been respected (1% per process, 5% per module, in terms of mass and primary energy consumption).

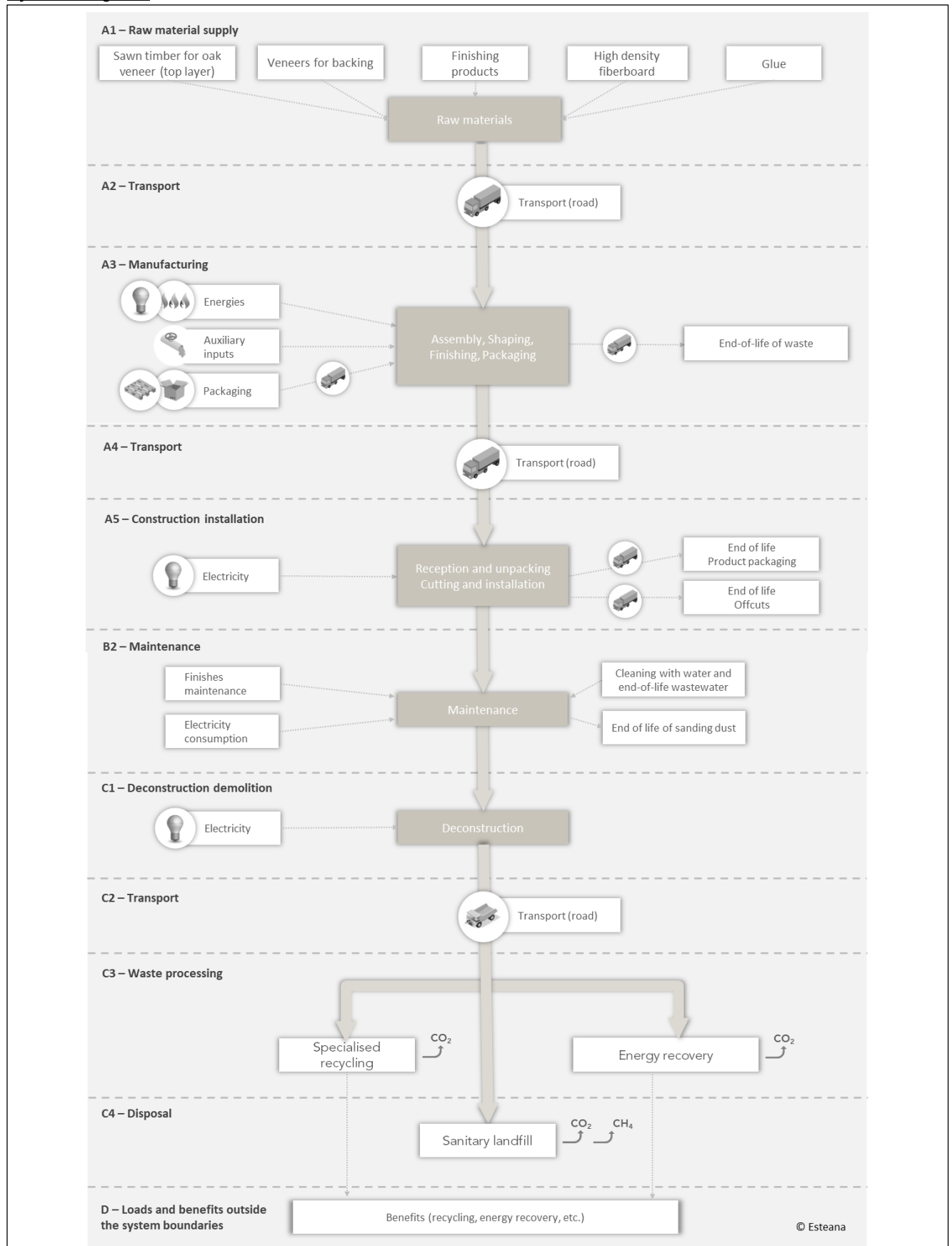
Allocation: The allocation rules set out in standard NF EN 15804+A2 have been complied with:

- Allocation avoided wherever possible;
- Allocation based on physical properties (e.g. mass, volume) when the difference in revenue generated by the co-products is small;
- In all other cases, allocation based on economic values;
- Material flows with specific inherent properties, e.g. energy content, elemental composition (e.g. biogenic carbon content), always assigned to reflect physical flows, regardless of the process assignment chosen.

The data for A3 production sites has been reduced to the functional unit per division, since there is a proportional relationship between the consumption dedicated to the products and the surface area of the coating produced.

In accordance with standard NF EN 16485, the biogenic carbon and energy flows included in the wood components are allocated in a physical manner.

System diagram:



Modules declared, geographical scope, share of specific data (in GWP-GHG results) and data variation (in GWP-GHG results):

|                      | Product stage       |           |               | Construction process stage |                           | Use stage |             |        |             |               |                        |                       | End of life stage          |           |                  |          | Resource recovery stage            |
|----------------------|---------------------|-----------|---------------|----------------------------|---------------------------|-----------|-------------|--------|-------------|---------------|------------------------|-----------------------|----------------------------|-----------|------------------|----------|------------------------------------|
|                      | Raw material supply | Transport | Manufacturing | Transport                  | Construction installation | Use       | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De-construction demolition | Transport | Waste processing | Disposal | Reuse-Recovery-Recycling-potential |
| Module               | A1                  | A2        | A3            | A4                         | A5                        | B1        | B2          | B3     | B4          | B5            | B6                     | B7                    | C1                         | C2        | C3               | C4       | D                                  |
| Modules declared     | X                   | X         | X             | X                          | X                         | X         | X           | X      | X           | X             | X                      | X                     | X                          | X         | X                | X        | X                                  |
| Geography            | EU27                | EU27      | FR / BE       | FR / BE                    | FR                        | FR        | FR          | FR     | FR          | FR            | FR                     | FR                    | FR                         | FR        | FR               | FR       | FR                                 |
| Specific data used   | 18%                 |           |               |                            |                           | -         | -           | -      | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                                  |
| Variation – products | -8,6% / +3,5%       |           |               |                            |                           | -         | -           | -      | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                                  |
| Variation – sites    | 0%                  |           |               |                            |                           | -         | -           | -      | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                                  |

## A1-A3 Product stage

### A1 – Raw materials supply

- Extraction of raw materials and successive transformations up to the production of the veneers / sawings supplied by the manufacturing site. The processes are included up to the exit door of the production site and include among others: CO<sub>2</sub> capture during tree growth, forestry and logging operations, sawing and transport.
- Extraction of raw materials, processing of secondary materials, production and transport of wood-based panels. Processes are included up to the exit door of the supplier's production site.
- Extraction of raw materials and subsequent processing until the raw materials required for the production of finishes are available.
- Extraction of raw materials and successive processing until the glues are applied.
- Extraction of raw materials and production of packaging for all components supplied (pallets, paper/cardboard and plastic packaging). The processes are included up to the exit door of the packaging production site.

## A2 – Transport

- Transport of packaged components / raw materials between their production site and the manufacturing site

## A3 – Manufacturing:

- Supply and use of energy inputs for the manufacturing process and handling.
- Extraction of raw materials and production of finished product packaging.
- Extraction of raw materials and successive transformations up to the production of waste wood from the manufacturing site.
- End of life of component / raw material packaging.
- Transport to the manufacturing site in Belgium (Meaulne to Menen).

## **A4-A5 Construction stage**

### A4 – Transport (to the construction site):

- Transport of the cladding strips and their packaging between the manufacturing site and the building site (via any intermediaries).

| Parameter                                     | Value / description                                                                                                                                                                                                    |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Transport production site > construction site | Delivered directly to construction site: 76%<br>Vehicle type: truck >32 tonnes<br>Fuel consumption: 0.019 L/tkm<br>Capacity utilisation: 53% (ecoinvent)<br>Distance: 276 km<br>Volume capacity utilisation factor: <1 |
| Transport production site > intermediary      | Vehicle type: truck >32 tonnes<br>Fuel consumption: 0.019 L/tkm<br>Capacity utilisation: 53% (ecoinvent)<br>Distance: 500 km<br>Volume capacity utilisation factor: <1                                                 |
| Transport intermediary > construction site    | Vehicle type: 16-32 tonnes truck<br>Fuel consumption: 0.037 L/tkm<br>Capacity utilisation: 36% (ecoinvent)<br>Distance: 30 km<br>Volume capacity utilisation factor: <1                                                |

### A5 – Construction / Installation:

- Installation of the cladding strips in the construction. This is taken into account with an electricity consumption by electro-powered machines.
- Manufacture, transport, packaging and end-of-life of offcuts of cladding strips. This includes all the processes involved in transporting the offcuts and treating them until they are no longer waste.
- End of life of finished product packaging. This includes all the processes involved in transporting and treating the packaging until it is no longer waste.

| Parameter                            | Value / description        |
|--------------------------------------|----------------------------|
| Auxiliary materials for installation | No auxiliary material used |

|                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Use of water                                                                                                                                                              | Not used                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Use of other resources                                                                                                                                                    | No other resource consumption                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Quantitative description of the type of energy (regional mix) and the consumption during the installation process                                                         | Low-voltage electricity France: 0.04 kWh/UF                                                                                                                                                                                                                                                                                                                                                                                                         |
| Wastage of materials on the building site before waste processing, generated by the product's installation (specified by type)                                            | <p>Waste wooden pallets (reused): 0.29 kg/UF</p> <p>Waste wood pallets (CODIFAB scenario): 0.14 kg/UF</p> <p>Plastic packaging waste (recycled): 0.02 kg/UF</p> <p>Plastic packaging waste (recovered): 0.02 kg/UF</p> <p>Plastic packaging waste (stored) : 0.03 kg/UF</p> <p>Paper and cardboard waste (recycled) : 0.07 kg/UF</p> <p>Paper / cardboard waste (recovered) : 0.003 kg/UF</p> <p>Paper / Cardboard waste (stored) : 0.004 kg/UF</p> |
| Output materials (specified by type) generated by waste treatment on the construction site, e.g. collection for recycling, energy recovery, disposal (specified by route) | Product losses: 5% of the product: 0.47 kg/UF                                                                                                                                                                                                                                                                                                                                                                                                       |

## B1-B7 Use stage

### B1 – Use:

- Wood and wood-based components store biogenic carbon during the product's life cycle.
- Air emissions of substances (VOCs, formaldehydes, etc.) are possible (glues and finishes), but it has not been possible to quantify them.

### B2 – Maintenance:

- Supply and use of water for periodic cleaning
- Periodic maintenance with a metallizing renovator. This renovation includes all the processes required to provide and apply the product.
- Renovation of finishes after they have been sanded with a vitrifier. This renovation includes all the processes required to provide and apply the product.
- Provision and use of electrical energy for sanding.
- End of life of sanding dust

| Parameter                                         | Value / description                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maintenance process                               | Periodic cleaning and maintenance of finishes, sanding and renovation                                                                                                                                                                                                                                      |
| Maintenance cycle                                 | Washing: 1 cycle every year, i.e. 50 cycles on the reference service life<br>Periodic maintenance: 4 cycles on the reference service life<br>Sanding: 1 cycle every 25 years, i.e. 1 cycle on the reference service life<br>Renovation: 1 cycle every 25 years, i.e. 1 cycle on the reference service life |
| Auxiliary inputs for maintenance                  | Use of metallizing renovator: 82 grams / UF<br>Use of vitrifier: 86 grams / UF                                                                                                                                                                                                                             |
| Waste products from maintenance                   | 1 mm of wood removed during sanding, i.e. 0.58 kg/UF                                                                                                                                                                                                                                                       |
| Net consumption of fresh water during maintenance | 1 L / wash cycle                                                                                                                                                                                                                                                                                           |
| Energy inputs during maintenance                  | Using a 1500 W sander for 2 minutes per square metre, i.e. 0.05 kWh/UF                                                                                                                                                                                                                                     |

### B3 TO B7 - REPAIR, REPLACEMENT, REFURBISHMENT, USE OF ENERGY AND WATER:

- No reparation during the reference service life
- No replacement during the reference service life
- No renovation during the reference service life
- No energy or water use during the reference service life

## C1-C4 End-of-life stage

### C1 – De-construction demolition:

- Disassembly of the cladding strips of the building, taken into account with an electricity consumption by electro-powered machines

### C2 – Transport (for treatment of disposal):

- Transport of the dismantled product to the various end-of-life sites

### C3 – Waste processing:

- Supply of electricity and diesel for sorting and/or shredding wood.
- Transport of wood from its direct destination after construction to its final destination
- Energy recovery from wood (boiler and cogeneration).
- Wood recovery in cements factories

### C4 – Disposal:

- Storage of the waste to be eliminated of in a non-hazardous waste storage center

| Parameter                             | Value / description                                                                                                                                                       |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Collecting process                    | 9,58 kg collected                                                                                                                                                         |
| Recovery system                       | 4,14 kg for recycling<br>3,98 kg for energy recovery<br>0.72 kg for incineration in cement plants                                                                         |
| Disposal                              | 0.74 kg for non-hazardous waste storage                                                                                                                                   |
| Electricity dismantling (power tools) | Low-voltage electricity consumption: 0,057 kWh/UF                                                                                                                         |
| Shredding, sorting and handling       | For the part going to waste collection centers:<br>Electricity for shredding and sorting: 37 kWh/ton<br>For the part going to the sorting centers :<br>Diesel: 2,68 L/ton |
| Residual biogenic carbon emissions    | 0,95 kg CO <sub>2</sub> /UF                                                                                                                                               |

## D Loads and benefits outside the system boundaries

| Recovered materials leaving the boundaries of the system                               | Recycling processes beyond system boundaries                               | Materials / energy saved   | Associated quantities |
|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------|-----------------------|
| Wood cladding and off-cuts from its installation and part of non-reused wooden pallets | Material recovery into particleboard: sorting and high-speed shredding     | Industrial wood production | 4,19 kg/UF            |
|                                                                                        | Energy recovery in cogeneration units and boilers (already included in C3) | Heat production            | 41,1 MJ/UF            |
|                                                                                        |                                                                            | Electricity production     | 1,5 kWh/UF            |
|                                                                                        | Material recovery in cement factories (already recorded in C3)             | Clinker                    | 0,03 kg/UF            |
|                                                                                        | Energy recovery in cement works (already recorded in C3)                   | Petroleum coke             | 9,9 MJ/UF             |
| Wooden pallet                                                                          | Reuse: Reconditioning / Refurbishment                                      | New pallet production      | 0,29 kg/UF            |
| Plastic packaging                                                                      | Recycling                                                                  | Plastic production         | 0,02 kg/UF            |
|                                                                                        | Energy recovery                                                            | Heat production            | 0,55 MJ/UF            |
|                                                                                        |                                                                            | Electricity production     | 0,02 kWh/UF           |
| Paper and cardboard packaging                                                          | Recycling                                                                  | Paper pulp production      | 0,02 kWh/UF           |
|                                                                                        | Energy recovery                                                            | Heat production            | 0,02 MJ/UF            |
|                                                                                        |                                                                            | Electricity production     | 0,003 kWh/UF          |

## Content information

| Product components      | Weight, kg | Post-consumer material, weight-% | Biogenic material, weight-% and kg C/m <sup>2</sup> |
|-------------------------|------------|----------------------------------|-----------------------------------------------------|
| Oak Veneer              | 2,55       | 0%                               | 100% and 0,78 kg C / m <sup>2</sup>                 |
| High density fiberboard | 7,29       | 0%                               | 81% and 4,19 kg C / m <sup>2</sup>                  |
| Softwood backing        | 0,82       | 0%                               | 100% and 0,36 kg C / m <sup>2</sup>                 |
| Glue                    | 0,22       | 0%                               | 0% and 0 kg C / m <sup>2</sup>                      |
| Varnish (solvent free)  | 0,11       | 0%                               | 0% and 0 kg C / m <sup>2</sup>                      |
| TOTAL                   | 10,98      | 0%                               | 5,34 kg C / m <sup>2</sup>                          |
| Packaging materials     | Weight, kg | Weight-% (versus the product)    | Weight biogenic carbon, kg C/m <sup>2</sup>         |
| Pallet, wood            | 0,43       | 5,1%                             | 0,22 kg C / m <sup>2</sup>                          |
| Plastic                 | 0,08       | 0,9%                             | 0 kg C / m <sup>2</sup>                             |
| Cardboard               | 0,08       | 1,0%                             | 0,06 kg C / m <sup>2</sup>                          |
| Paper / labels          | 0,00       | 0,0%                             | 0 kg C / m <sup>2</sup>                             |
| TOTAL                   | 0,59       | 7,0%                             | 0,28 kg C / m <sup>2</sup>                          |

The product does not contain more than 0.1% by mass of a substance classified as a Substance of Very High Concern (SVHC) according to the candidate list provided by Annex XIV of the REACH Regulation.

## Results of the environmental performance indicators

### Mandatory impact category indicators according to EN 15804

| Results per declared unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |              |              |              |              |              |              |              |              |              |              |              |              |              |                   |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------|
| Indicator                 | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A1-A3             | A4           | A5           | B1           | B2           | B3           | B4           | B5           | B6           | B7           | C1           | C2           | C3           | C4           | D                 |
| GWP-total                 | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -<br>8,73<br>E+00 | 3,70<br>E-01 | 1,10<br>E+00 | 0,00<br>E+00 | 1,33<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 5,07<br>E-03 | 2,80<br>E-02 | 1,29<br>E+01 | 1,20<br>E+00 | -<br>4,96<br>E+00 |
| GWP-fossil                | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6,04<br>E+00      | 3,69<br>E-01 | 4,47<br>E-01 | 0,00<br>E+00 | 4,21<br>E-01 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 4,96<br>E-03 | 2,80<br>E-02 | 2,61<br>E-01 | 7,41<br>E-03 | -<br>4,93<br>E+00 |
| GWP-biogenic              | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -<br>1,49<br>E+01 | 2,80<br>E-04 | 6,47<br>E-01 | 0,00<br>E+00 | 9,13<br>E-01 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 1,06<br>E-04 | 2,14<br>E-05 | 1,26<br>E+01 | 1,19<br>E+00 | -<br>2,81<br>E-02 |
| GWP-luluc                 | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1,50<br>E-01      | 1,80<br>E-04 | 7,52<br>E-03 | 0,00<br>E+00 | 3,85<br>E-04 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 3,40<br>E-06 | 1,31<br>E-05 | 1,24<br>E-04 | 1,68<br>E-06 | -<br>3,62<br>E-03 |
| ODP                       | kg CFC 11 eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1,57<br>E-07      | 8,36<br>E-09 | 1,38<br>E-08 | 0,00<br>E+00 | 1,47<br>E-08 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 2,06<br>E-10 | 6,13<br>E-10 | 2,18<br>E-08 | 2,17<br>E-10 | -<br>1,50<br>E-07 |
| AP                        | mol H <sup>+</sup> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4,08<br>E-02      | 9,09<br>E-04 | 2,74<br>E-03 | 0,00<br>E+00 | 5,70<br>E-03 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 3,48<br>E-05 | 1,11<br>E-04 | 6,97<br>E-03 | 4,82<br>E-05 | -<br>1,01<br>E-02 |
| EP-freshwater             | kg P eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,48<br>E-03      | 2,72<br>E-05 | 1,83<br>E-04 | 0,00<br>E+00 | 2,40<br>E-04 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 2,08<br>E-06 | 1,95<br>E-06 | 4,57<br>E-05 | 1,08<br>E-06 | -<br>5,38<br>E-04 |
| EP-marine                 | kg N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1,36<br>E-02      | 2,47<br>E-04 | 9,10<br>E-04 | 0,00<br>E+00 | 1,33<br>E-03 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 6,71<br>E-06 | 4,24<br>E-05 | 1,99<br>E-03 | 2,75<br>E-04 | -<br>1,97<br>E-03 |
| EP-terrestrial            | mol N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1,39<br>E-01      | 2,54<br>E-03 | 9,58<br>E-03 | 0,00<br>E+00 | 6,02<br>E-03 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 5,51<br>E-05 | 4,52<br>E-04 | 2,84<br>E-02 | 2,19<br>E-04 | -<br>1,99<br>E-02 |
| POCP                      | kg NMVOC eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5,51<br>E-02      | 1,48<br>E-03 | 3,39<br>E-03 | 0,00<br>E+00 | 2,13<br>E-03 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 1,87<br>E-05 | 1,64<br>E-04 | 5,59<br>E-03 | 1,40<br>E-04 | -<br>1,08<br>E-02 |
| ADP-minerals&metals*      | kg Sb eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2,88<br>E-05      | 1,06<br>E-06 | 1,86<br>E-06 | 0,00<br>E+00 | 4,34<br>E-06 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 2,34<br>E-07 | 9,24<br>E-08 | 1,35<br>E-06 | 1,53<br>E-08 | -<br>2,86<br>E-06 |
| ADP-fossil*               | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,24<br>E+02      | 5,63<br>E+00 | 1,30<br>E+01 | 0,00<br>E+00 | 8,17<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 6,78<br>E-01 | 4,00<br>E-01 | 5,36<br>E+00 | 1,73<br>E-01 | -<br>7,65<br>E+01 |
| WDP*                      | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4,09<br>E+00      | 2,89<br>E-02 | 2,24<br>E-01 | 0,00<br>E+00 | 3,95<br>E-01 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 8,24<br>E-03 | 1,94<br>E-03 | 7,71<br>E-02 | 1,46<br>E-03 | -<br>4,23<br>E-01 |
| Acronyms                  | GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption |                   |              |              |              |              |              |              |              |              |              |              |              |              |              |                   |

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

### Additional mandatory and voluntary impact category indicators

| Results per declared unit |                        |              |             |              |    |              |    |    |    |    |    |              |              |              |              |                  |
|---------------------------|------------------------|--------------|-------------|--------------|----|--------------|----|----|----|----|----|--------------|--------------|--------------|--------------|------------------|
| Indicator                 | Unit                   | A1-A3        | A4          | A5           | B1 | B2           | B3 | B4 | B5 | B6 | B7 | C1           | C2           | C3           | C4           | D                |
| GWP-GHG <sup>1</sup>      | kg CO <sub>2</sub> eq. | 6,21<br>9709 | 0,36<br>935 | 0,55<br>5394 | 0  | 0,42<br>2112 | 0  | 0  | 0  | 0  | 0  | 0,00<br>4981 | 0,02<br>8007 | 0,26<br>5989 | 0,16<br>2289 | -<br>4,25<br>142 |

<sup>1</sup> This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO<sub>2</sub> is set to zero.

Disclaimers shall be added, if required by EN 15804.

## Resource use indicators

| Results per declared unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |              |                   |              |                   |              |              |              |              |              |              |              |                   |              |                   |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|-------------------|--------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------|--------------|-------------------|
| Indicator                 | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1-A3        | A4           | A5                | B1           | B2                | B3           | B4           | B5           | B6           | B7           | C1           | C2           | C3                | C4           | D                 |
| PERE                      | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3,42<br>E+01 | 8,19<br>E-02 | 6,51<br>E+00      | 0,00<br>E+00 | 5,03<br>E+00      | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 5,72<br>E-02 | 6,71<br>E-03 | 6,77<br>E+01      | 7,47<br>E-03 | -<br>2,83<br>E+01 |
| PERM                      | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3,07<br>E+02 | 0,00<br>E+00 | 5,62<br>E-01      | 0,00<br>E+00 | -<br>8,27<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | -<br>1,27<br>E+02 | 0,00<br>E+00 | -<br>2,52<br>E+01 |
| PERT                      | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3,41<br>E+02 | 8,19<br>E-02 | 7,10<br>E+00      | 0,00<br>E+00 | -<br>3,22<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 5,72<br>E-02 | 6,71<br>E-03 | -<br>5,90<br>E+01 | 7,47<br>E-03 | -<br>5,35<br>E+01 |
| PENRE                     | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2,13<br>E+02 | 5,63<br>E+00 | 1,24<br>E+01      | 0,00<br>E+00 | 8,17<br>E+00      | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 6,78<br>E-01 | 4,00<br>E-01 | 5,36<br>E+00      | 1,73<br>E-01 | -<br>7,62<br>E+01 |
| PENRM                     | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,11<br>E+01 | 0,00<br>E+00 | -<br>3,28<br>E-01 | 0,00<br>E+00 | 0,00<br>E+00      | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00      | 0,00<br>E+00 | -<br>2,41<br>E-01 |
| PENRT                     | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2,24<br>E+02 | 5,63<br>E+00 | 1,20<br>E+01      | 0,00<br>E+00 | 8,17<br>E+00      | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 6,78<br>E-01 | 4,00<br>E-01 | 5,36<br>E+00      | 1,73<br>E-01 | -<br>7,65<br>E+01 |
| SM                        | kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,90<br>E-01 | 2,40<br>E-03 | 1,11<br>E-02      | 0,00<br>E+00 | 6,99<br>E-03      | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 4,91<br>E-05 | 1,74<br>E-04 | 3,90<br>E-03      | 6,79<br>E-05 | -<br>5,28<br>E-04 |
| RSF                       | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4,34<br>E+00 | 3,05<br>E-05 | 2,17<br>E-01      | 0,00<br>E+00 | 7,16<br>E-05      | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 3,11<br>E-07 | 1,90<br>E-06 | 1,68<br>E-05      | 2,81<br>E-06 | -<br>1,22<br>E-01 |
| NRSF                      | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00      | 0,00<br>E+00 | 0,00<br>E+00      | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00      | 0,00<br>E+00 | 0,00<br>E+00      |
| FW                        | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 9,80<br>E-02 | 7,49<br>E-04 | 5,20<br>E-03      | 0,00<br>E+00 | 1,30<br>E-04      | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 0,00<br>E+00 | 1,93<br>E-04 | 4,85<br>E-05 | 1,43<br>E-03      | 2,06<br>E-04 | -<br>1,02<br>E-02 |
| Acronyms                  | 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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water |              |              |                   |              |                   |              |              |              |              |              |              |              |                   |              |                   |

## Waste indicators

| Results per declared unit    |      |           |           |           |           |           |           |           |           |           |           |           |           |           |           |             |
|------------------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|
| Indicator                    | Unit | A1-A3     | A4        | A5        | B1        | B2        | B3        | B4        | B5        | B6        | B7        | C1        | C2        | C3        | C4        | D           |
| Hazardous waste disposed     | kg   | 3,75 E-01 | 5,40 E-03 | 2,36 E-02 | 0,00 E+00 | 5,44 E-02 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 3,07 E-04 | 3,49 E-04 | 3,24 E-02 | 1,95 E-04 | - 6,10 E-02 |
| Non-hazardous waste disposed | kg   | 5,38 E+00 | 5,25 E-01 | 4,08 E-01 | 0,00 E+00 | 7,86 E-01 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 7,57 E-03 | 2,00 E-02 | 2,71 E-01 | 7,38 E-01 | - 5,58 E-01 |
| Radioactive waste disposed   | kg   | 1,89 E-03 | 1,71 E-06 | 1,09 E-04 | 0,00 E+00 | 2,45 E-05 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 8,76 E-06 | 1,50 E-07 | 2,59 E-05 | 9,82 E-08 | - 1,68 E-04 |

## Output flow indicators

| Results per declared unit     |      |           |           |           |           |           |           |           |           |           |           |           |           |           |           |             |
|-------------------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|
| Indicator                     | Unit | A1-A3     | A4        | A5        | B1        | B2        | B3        | B4        | B5        | B6        | B7        | C1        | C2        | C3        | C4        | D           |
| Components for re-use         | kg   | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00   |
| Material for recycling        | kg   | 1,62 E+00 | 4,19 E-05 | 4,54 E-01 | 0,00 E+00 | 2,54 E-01 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 4,03 E-05 | 2,98 E-06 | 4,17 E+00 | 1,77 E-06 | - 2,33 E-03 |
| Materials for energy recovery | kg   | 6,32 E-06 | 2,38 E-07 | 3,73 E-07 | 0,00 E+00 | 4,31 E-07 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 4,62 E-09 | 1,25 E-08 | 2,15 E-07 | 3,40 E-09 | - 7,06 E-07 |
| Exported energy, electricity  | MJ   | 1,32 E-01 | 8,00 E-04 | 2,17 E-01 | 0,00 E+00 | 1,30 E-01 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 2,30 E-04 | 7,78 E-05 | 5,25 E+00 | 9,88 E-05 | - 2,17 E-02 |
| Exported energy, thermal      | MJ   | 1,52 E-01 | 8,75 E-04 | 3,87 E+00 | 0,00 E+00 | 3,12 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 0,00 E+00 | 1,75 E-05 | 3,73 E-04 | 5,10 E+01 | 7,46 E-05 | - 6,82 E-03 |

The result tables shall only contain values or the letters “ND” (Not Declared). It is not possible to specify ND for mandatory indicators. ND shall only be used for voluntary parameters that are not quantified because no data is available.

## Differences versus previous versions

*This is the first Berryalloc NV's EPD for Laminated Parquet published at Environdec..*

## References

General Programme Instructions of the International EPD<sup>®</sup> System. Version 5.0.

PCR 2019:14. Construction products (EN 15804:A2) (1.3.4)

PCR 2019:14- c-PCR-006 Wood and wood-based products for use in construction (EN 16485)

EN 15804:2012+A2:2019, Sustainability of construction works - Environmental Product Declarations – Core rules for the product category of construction products

ISO 14025:2009: Environmental labels and declarations - Type III environmental product declarations

ISO 14040:2006, Environmental management - Life cycle assessment – Principles

ISO 14044:2006, Environmental management - Life cycle assessment - Requirements and guidelines

EN 16449:2014 ISO 14025:2010 Wood and wood-based products - Calculation of the biogenic carbon content of wood and conversion to carbon dioxide

