

# Environmental Product Declaration



In accordance with ISO 14025 and EN 15804:2012+A2:2019 for:

## Wooden panels and floors

from

## Norrlands trä AB

|                          |                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------|
| Programme:               | The International EPD® System, <a href="http://www.environdec.com">www.environdec.com</a> |
| Programme operator:      | EPD International AB                                                                      |
| EPD registration number: | S-P-02655                                                                                 |
| Publication date:        | 2021-03-01                                                                                |
| Valid until:             | 2026-03-01                                                                                |

*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® 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>        |

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

Product category rules (PCR): *Construction Products, PCR 2019:14, version 1.1, UN-CPC code: 311*

PCR review was conducted by: The Technical Committee of the International EPD® System. A full list of members available on [www.environdec.com](http://www.environdec.com). Chair of the PCR review: Claudia A. Peña

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

☐ EPD process certification ☒ EPD verification

Third party verifier: *Marcus Wendin, Miljögiraff*

*In case of accredited certification bodies:*

Accredited by: *<name of the accreditation body and accreditation number, where applicable>.*

*In case of recognised individual verifiers:*

Approved by: The International EPD® 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 from different programmes may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804. For further information about comparability, see EN 15804 and ISO 14025.

## Company information

Owner of the EPD:

Norrlands trä AB

Contact:

Maria Nivfors

Description of the organisation:

Norrlands trä AB is a planing mill located just outside Härnösand in Sweden. The company manufactures high-quality panels and floors from solid wood for the Scandinavian market.

Product-related or management system-related certifications:

All wood used in the products is supplied from forestry certified by Forest Stewardship Council (FSC). The panels in this EPD are also accepted according to Byggvarubedömningen and BASTA, two non-profit organizations supplying information regarding sustainability of construction materials and chemicals.

Name and location of production site:

Ålandsbro, Sweden

## Product information

Product name:

Wooden panels and floors for indoor use.

UN CPC code: 311

Product identification:

This EPD covers the following categories of products:

- Painted panels, 14 – 15 mm.
- Panels with super glazing 14 – 15 mm.
- Panels with wax glazing 14 – 15 mm.
- Panels with wood stain 14 – 15 mm.
- Untreated panels 14 – 15 mm.
- Untreated floors, 15 mm, 20 mm and 25 mm.
- Floors with ultra protect treatment, 15 mm, 20 mm and 25 mm.
- Floors with wood stain and ultra protect treatment, 15 mm, 20 mm and 25 mm.

The measurements in the list above refers to the thickness of the product. Within the above-mentioned product categories, the following products are included:

|        |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Panels | Untreated or surface treated | Pärilspont, Slätspont, Springpanel, Faspanel, Spårpanel 4018, Spårpanel 4019, Finsågad pärilspont, Finsågad slätspont, Finsågad springpanel, Finsågad faspanel, Finsågad spårpanel 4018, Finsågad spårpanel 4019, Putsad pärilspont, Putsad slätspont, Putsad springpanel, Putsad faspanel, Putsad spårpanel 4018, Putsad spårpanel 4019, Borstad pärilspont, Borstad slätspont, Borstad springpanel, Borstad faspanel, Borstad spårpanel 4018, Borstad spårpanel 4019 |
| Floors | Untreated or surface treated | Putsat, Borstat                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

Product description:

The wooden panels and floors are made of spruce or pine with a moisture content between 8 and 16 %. The products can be delivered with or without surface treatment. Within the product categories, there are also alternatives with a slight difference in surface structure, with smoother and rougher options. The panels also come with different alternatives regarding finish like beadboard and plain bridge. Examples can be seen in Figure 1 below.



Figure 1 – Examples of panels. From left to right: Putsad pärlspont (painted), Putsad spårpanel (super glazed), Borstad slätspont (wood-stained), Finsågad springpanel (painted)

The panels with surface treatment are all treated with water-based surface treatment products. The painted panels are treated with primer and topcoat. The super glazed panels are treated with a base lacquer and a top glaze. The wax glazed panels are treated with a glaze. The wood-stained panels are treated with wood stain and lacquer. The panels are used indoor for cladding of walls and ceilings.

The floors with ultra protect treatment have a layer of floor oil and layers of water-based lacquer. As one of the categories states, there is also an alternative with both wood stain and ultra protect. As with the panels, there are options for smooth and rough surfaces. The floors are used indoor.

## LCA information

Functional unit / declared unit: 1 m<sup>2</sup> of panel/floor installed at customer.

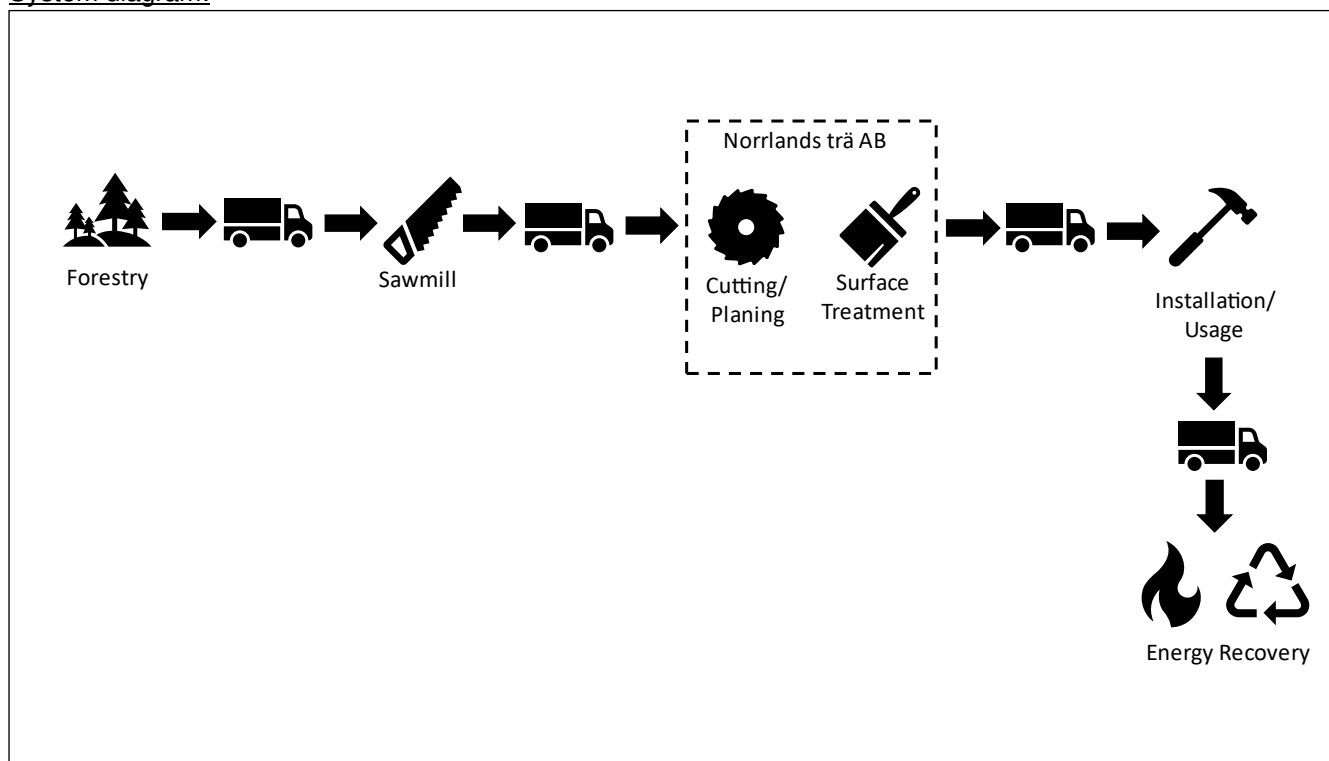
Time representativeness: The data represents the production from September 2019 and September 2020

Database(s) and LCA software used: The lifecycle is modelled in GaBi ts using the database; Professional database, version 2020.2 and the database; Extension database IXa: End-of-Life 2020.

Description of system boundaries:

Cradle to gate with options, modules A + C + D. Module B is excluded.

System diagram:



More information:

### A1-A3 Production

- All wood is supplied from sawmills in Sweden. EPD for Swedish sawn and dried timber of spruce and pine is used for raw material production (Swedish Wood, 2018)
- A density of 470 kg/m<sup>3</sup> together with the thickness of the product can be used to convert the functional unit to kg.
- Production of surface treatment products.
- The generation of the electricity later used for the production in module A3 is based on the mix provided by the electricity supplier. The mix is 86 % hydro power, 12 % from biomass and 2 % wind power, bought through guarantee of origin certificates. The supplied electricity mix has a climate impact of 17 g CO<sub>2</sub>-eq/kWh.
- Production of packaging material.
- Production of energy carriers used in production.
- Transportation of all material to production site
- Transportation of all waste and processes for waste management
- Ancillary products with a combined weight < 0,1 % of total used material is disregarded.
- Production of the production site itself is disregarded.

## **A4 Transportation**

- Specific data regarding transportation from production to stores.
- Transportation distance between store and building site assumed to be 10 km and average amount of material bought is estimated to 1,2 m<sup>3</sup>.

## **A5 Installation**

- Production and transportation of fixing material (screws and nails)
- 5 % of material is lost in fitting, compensated in previous modules.
- Installation is performed by hand; no machinery is needed.
- Transportation of all waste and processes for waste management. Transportation distance is assumed to be 10 km.
- When untreated floor is installed, it is assumed that the customer applies water-based lacquer in accordance with recommendations. Impact from production of lacquer is included.

## **C1-C4 End of Life**

- Deconstruction is performed by hand; no machinery is needed.
- Transportation of used products to waste management. Transport distance is assumed to be 10 km.
- Both panels and floors are assumed to be incinerated in municipal waste incinerators, producing electricity and district heating.

## **D Benefits and Loads Beyond System Boundaries**

- Replacement of Swedish electricity grid mix and heat from biomass.

LCA practitioner:

Marcus Öhlén

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

|                      | 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                         | ND        | ND          | ND     | ND          | ND            | ND                     | ND                    | X                          | X         | X                | X        | X                                  |
| Geography            | SE/EU               | SE        | SE                         | SE        | SE                        | ND        | ND          | ND     | ND          | ND            | ND                     | ND                    | SE                         | SE        | SE               | SE       | SE                                 |
| Specific data used   | More than 50%       |           |                            |           |                           | -         | -           | -      | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                                  |
| Variation – products | Less than 10%       |           |                            |           |                           | -         | -           | -      | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                                  |
| Variation – sites    | Not relevant        |           |                            |           |                           | -         | -           | -      | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                                  |

## Content information

| Product components, Painted panels, 14 – 15 mm                                        | Weight, kg          | Post-consumer material, weight-% | Renewable material, weight-% |
|---------------------------------------------------------------------------------------|---------------------|----------------------------------|------------------------------|
| Wood                                                                                  | 7,05                | 97,8 %                           | 100 %                        |
| Varnish/paint                                                                         | 0,16                | 2,2 %                            | 0 %                          |
| Product components, Panels with super glazing, 14 – 15 mm                             | Weight, kg          | Post-consumer material, weight-% | Renewable material, weight-% |
| Wood                                                                                  | 7,05                | 99,0 %                           | 100 %                        |
| Varnish/paint                                                                         | 0,07                | 1,0 %                            | 0 %                          |
| Product components, Panels with wax glazing, 14 – 15 mm                               | Weight, kg          | Post-consumer material, weight-% | Renewable material, weight-% |
| Wood                                                                                  | 7,05                | 99,3 %                           | 100 %                        |
| Varnish/paint                                                                         | 0,05                | 0,7 %                            | 0 %                          |
| Product components, Panels with wood stain, 14 – 15 mm                                | Weight, kg          | Post-consumer material, weight-% | Renewable material, weight-% |
| Wood                                                                                  | 7,05                | 99,6 %                           | 100 %                        |
| Varnish/paint                                                                         | 0,03                | 0,4 %                            | 0 %                          |
| Product components, Untreated panels 14 - 15 mm                                       | Weight, kg          | Post-consumer material, weight-% | Renewable material, weight-% |
| Wood                                                                                  | 7,05                | 100 %                            | 100 %                        |
| Product components, Untreated floor 15, (20), 25 mm                                   | Weight, kg          | Post-consumer material, weight-% | Renewable material, weight-% |
| Wood                                                                                  | 7,05, (9,40), 11,75 | 100 %                            | 100 %                        |
| Product components, Floor with ultra protect treatment 15, (20), 25 mm                | Weight, kg          | Post-consumer material, weight-% | Renewable material, weight-% |
| Wood                                                                                  | 7,05, (9,40), 11,75 | 99,3, (99,5), 99,6 %             | 100 %                        |
| Varnish/paint                                                                         | 0,05                | 0,7, (0,5), 0,4 %                | 0 %                          |
| Product components, Floor with wood stain and ultra protect treatment 15, (20), 25 mm | Weight, kg          | Post-consumer material, weight-% | Renewable material, weight-% |
| Wood                                                                                  | 7,05, (9,40), 11,75 | 98,9, (99,2), 99,3 %             | 100 %                        |
| Varnish/paint                                                                         | 0,08                | 1,1, (0,8), 0,7 %                | 0 %                          |
| Packaging materials, for all products                                                 | Weight, kg          | Weight-% (versus the product)    |                              |
| Plastic cover, PE                                                                     | 0,05 - 0,06         | 0,5 - 0,7 %                      |                              |
| Paper                                                                                 | 0,006               | 0,06 – 0,08 %                    |                              |

Neither the panels nor the floors contain any substances on the candidate list of SVHC for authorization.

## Environmental Information

### Potential environmental impact – Painted panels, 14 – 15 mm.

| Results per functional or declared unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A1        | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| GWP-total                               | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -8,60E+00 | 2,07E-01 | 3,35E-01 | 4,69E-01 | 8,57E-01 | 0,00E+00 | 6,43E-03 | 1,30E+01 | 0,00E+00 | -4,09E-01 |
| GWP-fossil                              | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1,21E+00  | 1,94E-01 | 2,58E-01 | 3,53E-01 | 1,75E-01 | 0,00E+00 | 5,49E-03 | 3,00E-01 | 0,00E+00 | -3,97E-01 |
| GWP-biogenic                            | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -1,15E+01 | 1,19E-02 | 7,70E-02 | 1,14E-01 | 6,82E-01 | 0,00E+00 | 9,11E-04 | 1,27E+01 | 0,00E+00 | -1,11E-02 |
| GWP-luluc                               | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8,44E-03  | 7,66E-04 | 8,48E-05 | 1,76E-03 | 9,24E-05 | 0,00E+00 | 2,41E-05 | 1,32E-04 | 0,00E+00 | -1,02E-03 |
| ODP                                     | kg CFC 11 eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5,00E-15  | 2,57E-17 | 2,84E-11 | 5,91E-17 | 7,33E-16 | 0,00E+00 | 8,07E-19 | 1,61E-15 | 0,00E+00 | -2,48E-10 |
| AP                                      | mol H <sup>+</sup> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7,90E-03  | 3,63E-04 | 8,31E-04 | 1,12E-03 | 3,91E-04 | 0,00E+00 | 1,26E-05 | 1,88E-03 | 0,00E+00 | -5,10E-03 |
| EP-freshwater                           | kg P eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2,68E-04  | 4,43E-06 | 1,21E-06 | 1,02E-05 | 2,84E-07 | 0,00E+00 | 1,39E-07 | 2,65E-07 | 0,00E+00 | -5,60E-06 |
| EP-marine                               | kg N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8,39E-04  | 2,62E-04 | 1,60E-04 | 7,51E-04 | 9,98E-05 | 0,00E+00 | 8,83E-06 | 6,10E-04 | 0,00E+00 | -2,31E-03 |
| EP-terrestrial                          | mol N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8,65E-03  | 1,33E-03 | 1,62E-03 | 4,68E-03 | 1,20E-03 | 0,00E+00 | 4,83E-05 | 8,85E-03 | 0,00E+00 | -2,47E-02 |
| POCP                                    | kg NMVOC eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3,01E-03  | 2,50E-04 | 4,42E-04 | 6,70E-04 | 2,98E-04 | 0,00E+00 | 6,45E-06 | 1,67E-03 | 0,00E+00 | -6,22E-03 |
| ADP-minerals&metals*                    | kg Sb eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2,06E-06  | 1,13E-08 | 1,45E-08 | 2,60E-08 | 6,05E-06 | 0,00E+00 | 3,55E-10 | 2,58E-08 | 0,00E+00 | -2,68E-07 |
| ADP-fossil*                             | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,13E+01  | 1,99E+00 | 4,45E+00 | 4,57E+00 | 1,32E+00 | 0,00E+00 | 6,24E-02 | 2,85E+00 | 0,00E+00 | -2,44E+01 |
| WDP                                     | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2,24E-01  | 1,36E-03 | 1,16E-01 | 3,14E-03 | 7,89E-02 | 0,00E+00 | 4,29E-05 | 1,35E+00 | 0,00E+00 | -2,25E-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.

### Potential Environmental impact – additional mandatory indicator – Painted panels 14 – 15 mm.

| Results per functional or declared unit |                        |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                   | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| GWP-GHG*                                | kg CO <sub>2</sub> eq. | 2,84E+00 | 2,07E-01 | 2,61E-01 | 4,69E-01 | 2,70E-01 | 0,00E+00 | 6,43E-03 | 2,23E+00 | 0,00E+00 | -4,09E-01 |

\*The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

## Use of resources – Painted panels, 14 – 15 mm.

| Results per functional or declared unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| PERE                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6,99E+01 | 1,08E-01 | 4,01E-01 | 2,48E-01 | 2,18E-01 | 0,00E+00 | 3,39E-03 | 5,36E-01 | 0,00E+00 | -6,34E+01 |
| PERM                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,08E+02 | 0,00E+00 | 1,40E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PERT                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,78E+02 | 1,08E-01 | 4,01E-01 | 2,48E-01 | 2,18E-01 | 0,00E+00 | 3,39E-03 | 5,36E-01 | 0,00E+00 | -6,34E+01 |
| PENRE                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2,61E+01 | 1,99E+00 | 4,45E+00 | 4,59E+00 | 1,32E+00 | 0,00E+00 | 6,26E-02 | 2,85E+00 | 0,00E+00 | -2,44E+01 |
| PENRM                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 2,19E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PENRT                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2,61E+01 | 1,99E+00 | 4,45E+00 | 4,59E+00 | 1,32E+00 | 0,00E+00 | 6,26E-02 | 2,85E+00 | 0,00E+00 | -2,44E+01 |
| SM                                      | kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| RSF                                     | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| NRSF                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| FW                                      | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2,69E-02 | 1,26E-04 | 3,03E-03 | 2,89E-04 | 2,04E-03 | 0,00E+00 | 3,95E-06 | 3,18E-02 | 0,00E+00 | -3,42E-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 production – Painted panels, 14 - 15 mm.

| Results per functional or declared unit |      |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| Hazardous waste disposed                | kg   | 1,31E-03 | 8,67E-08 | 1,00E-08 | 1,99E-07 | 1,76E-09 | 0,00E+00 | 2,72E-09 | 2,44E-09 | 0,00E+00 | -3,24E-08 |
| Non-hazardous waste disposed            | kg   | 2,62E-01 | 2,97E-04 | 1,56E-02 | 6,84E-04 | 7,91E-03 | 0,00E+00 | 9,33E-06 | 1,06E-01 | 0,00E+00 | -1,06E-01 |
| Radioactive waste disposed              | kg   | 3,91E-04 | 3,45E-06 | 6,59E-06 | 7,95E-06 | 4,24E-05 | 0,00E+00 | 1,09E-07 | 1,64E-04 | 0,00E+00 | -8,62E-03 |

## Output flows - Painted, panels 14 - 15 mm.

| Results per functional or declared unit |      |          |          |          |          |          |          |          |          |          |          |
|-----------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Indicator                               | Unit | A1       | A2       | A3       | A4       | A5       | 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 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Material for recycling                  | kg   | 4,75E-02 | 0,00E+00 | 1,64E-03 | 0,00E+00 | 2,58E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Materials for energy recovery           | kg   | 3,17E-02 | 0,00E+00 | 1,16E-01 | 0,00E+00 | 8,42E-03 | 0,00E+00 | 0,00E+00 | 7,10E+00 | 0,00E+00 | 0,00E+00 |
| Exported energy, electricity            | MJ   | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 9,96E-01 | 0,00E+00 | 0,00E+00 | 1,86E+01 | 0,00E+00 | 0,00E+00 |
| Exported energy, thermal                | MJ   | 4,08E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,79E+00 | 0,00E+00 | 0,00E+00 | 3,34E+01 | 0,00E+00 | 0,00E+00 |

### Potential environmental impact – Panels with super glazing, 14 – 15 mm.

| Results per functional or declared unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A1        | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| GWP-total                               | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -8,84E+00 | 2,01E-01 | 3,28E-01 | 4,69E-01 | 8,54E-01 | 0,00E+00 | 6,43E-03 | 1,29E+01 | 0,00E+00 | -4,09E-01 |
| GWP-fossil                              | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9,51E-01  | 1,89E-01 | 2,51E-01 | 3,53E-01 | 1,72E-01 | 0,00E+00 | 5,49E-03 | 2,40E-01 | 0,00E+00 | -3,97E-01 |
| GWP-biogenic                            | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -1,14E+01 | 1,10E-02 | 7,70E-02 | 1,14E-01 | 6,82E-01 | 0,00E+00 | 9,11E-04 | 1,27E+01 | 0,00E+00 | -1,11E-02 |
| GWP-luluc                               | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8,29E-03  | 7,44E-04 | 8,42E-05 | 1,76E-03 | 9,22E-05 | 0,00E+00 | 2,41E-05 | 1,28E-04 | 0,00E+00 | -1,02E-03 |
| ODP                                     | kg CFC 11 eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3,21E-15  | 2,50E-17 | 2,84E-11 | 5,91E-17 | 7,32E-16 | 0,00E+00 | 8,07E-19 | 1,59E-15 | 0,00E+00 | -2,48E-10 |
| AP                                      | mol H <sup>+</sup> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6,47E-03  | 3,52E-04 | 8,29E-04 | 1,12E-03 | 3,90E-04 | 0,00E+00 | 1,26E-05 | 1,86E-03 | 0,00E+00 | -5,10E-03 |
| EP-freshwater                           | kg P eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2,67E-04  | 4,30E-06 | 1,21E-06 | 1,02E-05 | 2,83E-07 | 0,00E+00 | 1,39E-07 | 2,48E-07 | 0,00E+00 | -5,60E-06 |
| EP-marine                               | kg N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6,27E-04  | 2,53E-04 | 1,59E-04 | 7,51E-04 | 9,95E-05 | 0,00E+00 | 8,83E-06 | 6,05E-04 | 0,00E+00 | -2,31E-03 |
| EP-terrestrial                          | mol N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6,33E-03  | 1,28E-03 | 1,61E-03 | 4,68E-03 | 1,19E-03 | 0,00E+00 | 4,83E-05 | 8,78E-03 | 0,00E+00 | -2,47E-02 |
| POCP                                    | kg NMVOC eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2,21E-03  | 2,44E-04 | 4,40E-04 | 6,70E-04 | 2,97E-04 | 0,00E+00 | 6,44E-06 | 1,65E-03 | 0,00E+00 | -6,22E-03 |
| ADP-minerals&metals*                    | kg Sb eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2,03E-06  | 1,10E-08 | 1,45E-08 | 2,60E-08 | 6,05E-06 | 0,00E+00 | 3,55E-10 | 2,53E-08 | 0,00E+00 | -2,68E-07 |
| ADP-fossil*                             | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,57E+01  | 1,93E+00 | 4,44E+00 | 4,57E+00 | 1,31E+00 | 0,00E+00 | 6,24E-02 | 2,81E+00 | 0,00E+00 | -2,44E+01 |
| WDP                                     | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1,91E-01  | 1,32E-03 | 1,15E-01 | 3,14E-03 | 7,82E-02 | 0,00E+00 | 4,29E-05 | 1,34E+00 | 0,00E+00 | -2,25E-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.

### Potential Environmental impact – additional mandatory indicator – Panels with super glazing 14 – 15 mm.

| Results per functional or declared unit |                        |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                   | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| GWP-GHG*                                | kg CO <sub>2</sub> eq. | 2,60E+00 | 2,01E-01 | 2,54E-01 | 4,69E-01 | 2,67E-01 | 0,00E+00 | 6,43E-03 | 2,17E+00 | 0,00E+00 | -4,09E-01 |

\*The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

### Use of resources – Panels with super glazing, 14 – 15 mm.

| Results per functional or declared unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| PERE                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6,93E+01 | 1,05E-01 | 4,00E-01 | 2,48E-01 | 2,18E-01 | 0,00E+00 | 3,39E-03 | 5,25E-01 | 0,00E+00 | -6,34E+01 |
| PERM                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,08E+02 | 0,00E+00 | 1,40E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PERT                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,77E+02 | 1,05E-01 | 4,00E-01 | 2,48E-01 | 2,18E-01 | 0,00E+00 | 3,39E-03 | 5,25E-01 | 0,00E+00 | -6,34E+01 |
| PENRE                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2,05E+01 | 1,93E+00 | 4,44E+00 | 4,59E+00 | 1,32E+00 | 0,00E+00 | 6,26E-02 | 2,81E+00 | 0,00E+00 | -2,44E+01 |
| PENRM                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 2,19E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PENRT                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2,05E+01 | 1,93E+00 | 4,44E+00 | 4,59E+00 | 1,32E+00 | 0,00E+00 | 6,26E-02 | 2,81E+00 | 0,00E+00 | -2,44E+01 |
| SM                                      | kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| RSF                                     | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| NRSF                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| FW                                      | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2,56E-02 | 1,22E-04 | 3,00E-03 | 2,89E-04 | 2,02E-03 | 0,00E+00 | 3,95E-06 | 3,15E-02 | 0,00E+00 | -3,42E-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 production – Panels with super glazing, 14 - 15 mm.

| Results per functional or declared unit |      |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| Hazardous waste disposed                | kg   | 1,31E-03 | 8,41E-08 | 9,98E-09 | 1,99E-07 | 1,74E-09 | 0,00E+00 | 2,72E-09 | 2,16E-09 | 0,00E+00 | -3,24E-08 |
| Non-hazardous waste disposed            | kg   | 1,60E-01 | 2,88E-04 | 1,47E-02 | 6,84E-04 | 7,51E-03 | 0,00E+00 | 9,33E-06 | 9,82E-02 | 0,00E+00 | -1,06E-01 |
| Radioactive waste disposed              | kg   | 2,38E-04 | 3,35E-06 | 6,22E-06 | 7,95E-06 | 4,22E-05 | 0,00E+00 | 1,09E-07 | 1,61E-04 | 0,00E+00 | -8,62E-03 |

### Output flows – Panels with super glazing, 14 - 15 mm.

| Results per functional or declared unit |      |          |          |          |          |          |          |          |          |          |          |
|-----------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Indicator                               | Unit | A1       | A2       | A3       | A4       | A5       | 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 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Material for recycling                  | kg   | 4,75E-02 | 0,00E+00 | 1,64E-03 | 0,00E+00 | 2,58E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Materials for energy recovery           | kg   | 3,17E-02 | 0,00E+00 | 1,16E-01 | 0,00E+00 | 8,42E-03 | 0,00E+00 | 0,00E+00 | 7,10E+00 | 0,00E+00 | 0,00E+00 |
| Exported energy, electricity            | MJ   | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 9,96E-01 | 0,00E+00 | 0,00E+00 | 1,86E+01 | 0,00E+00 | 0,00E+00 |
| Exported energy, thermal                | MJ   | 4,08E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,79E+00 | 0,00E+00 | 0,00E+00 | 3,34E+01 | 0,00E+00 | 0,00E+00 |

### Potential environmental impact – Panel with wax glazing, 14 – 15 mm.

| Results per functional or declared unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A1        | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| GWP-total                               | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -8,91E+00 | 1,99E-01 | 3,26E-01 | 4,69E-01 | 8,53E-01 | 0,00E+00 | 6,43E-03 | 1,29E+01 | 0,00E+00 | -4,09E-01 |
| GWP-fossil                              | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8,63E-01  | 1,87E-01 | 2,49E-01 | 3,53E-01 | 1,71E-01 | 0,00E+00 | 5,49E-03 | 2,28E-01 | 0,00E+00 | -3,97E-01 |
| GWP-biogenic                            | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -1,14E+01 | 1,08E-02 | 7,70E-02 | 1,14E-01 | 6,82E-01 | 0,00E+00 | 9,11E-04 | 1,27E+01 | 0,00E+00 | -1,11E-02 |
| GWP-luluc                               | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8,24E-03  | 7,36E-04 | 8,41E-05 | 1,76E-03 | 9,21E-05 | 0,00E+00 | 2,41E-05 | 1,27E-04 | 0,00E+00 | -1,02E-03 |
| ODP                                     | kg CFC 11 eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2,60E-15  | 2,47E-17 | 2,84E-11 | 5,91E-17 | 7,32E-16 | 0,00E+00 | 8,07E-19 | 1,58E-15 | 0,00E+00 | -2,48E-10 |
| AP                                      | mol H <sup>+</sup> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5,98E-03  | 3,48E-04 | 8,29E-04 | 1,12E-03 | 3,90E-04 | 0,00E+00 | 1,26E-05 | 1,86E-03 | 0,00E+00 | -5,10E-03 |
| EP-freshwater                           | kg P eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2,67E-04  | 4,25E-06 | 1,21E-06 | 1,02E-05 | 2,83E-07 | 0,00E+00 | 1,39E-07 | 2,44E-07 | 0,00E+00 | -5,60E-06 |
| EP-marine                               | kg N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5,56E-04  | 2,51E-04 | 1,59E-04 | 7,51E-04 | 9,95E-05 | 0,00E+00 | 8,83E-06 | 6,04E-04 | 0,00E+00 | -2,31E-03 |
| EP-terrestrial                          | mol N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5,55E-03  | 1,27E-03 | 1,61E-03 | 4,68E-03 | 1,19E-03 | 0,00E+00 | 4,83E-05 | 8,76E-03 | 0,00E+00 | -2,47E-02 |
| POCP                                    | kg NMVOC eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1,94E-03  | 2,42E-04 | 4,40E-04 | 6,70E-04 | 2,97E-04 | 0,00E+00 | 6,45E-06 | 1,65E-03 | 0,00E+00 | -6,22E-03 |
| ADP-minerals&metals*                    | kg Sb eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2,02E-06  | 1,09E-08 | 1,44E-08 | 2,60E-08 | 6,04E-06 | 0,00E+00 | 3,55E-10 | 2,53E-08 | 0,00E+00 | -2,68E-07 |
| ADP-fossil*                             | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,39E+01  | 1,91E+00 | 4,44E+00 | 4,57E+00 | 1,32E+00 | 0,00E+00 | 6,24E-02 | 2,79E+00 | 0,00E+00 | -2,44E+01 |
| WDP                                     | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1,80E-01  | 1,31E-03 | 1,15E-01 | 3,14E-03 | 7,81E-02 | 0,00E+00 | 4,29E-05 | 1,34E+00 | 0,00E+00 | -2,25E-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.

### Potential Environmental impact – additional mandatory indicator – Panels with wax glazing 14 – 15 mm.

| Results per functional or declared unit |                        |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                   | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| GWP-GHG*                                | kg CO <sub>2</sub> eq. | 2,53E+00 | 1,99E-01 | 2,53E-01 | 4,69E-01 | 2,67E-01 | 0,00E+00 | 6,43E-03 | 2,16E+00 | 0,00E+00 | -4,09E-01 |

\*The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

### Use of resources – Panel with wax glazing, 14 – 15 mm.

| Results per functional or declared unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| PERE                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6,91E+01 | 1,04E-01 | 3,99E-01 | 2,49E-01 | 2,18E-01 | 0,00E+00 | 3,39E-03 | 5,23E-01 | 0,00E+00 | -6,33E+01 |
| PERM                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,08E+02 | 0,00E+00 | 1,40E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PERT                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,77E+02 | 1,04E-01 | 3,99E-01 | 2,48E-01 | 2,18E-01 | 0,00E+00 | 3,39E-03 | 5,23E-01 | 0,00E+00 | -6,34E+01 |
| PENRE                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,86E+01 | 1,92E+00 | 4,44E+00 | 4,59E+00 | 1,32E+00 | 0,00E+00 | 6,26E-02 | 2,80E+00 | 0,00E+00 | -2,44E+01 |
| PENRM                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 2,19E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PENRT                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,86E+01 | 1,92E+00 | 4,44E+00 | 4,59E+00 | 1,32E+00 | 0,00E+00 | 6,26E-02 | 2,80E+00 | 0,00E+00 | -2,44E+01 |
| SM                                      | kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| RSF                                     | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| NRSF                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| FW                                      | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2,52E-02 | 1,21E-04 | 2,99E-03 | 2,89E-04 | 2,02E-03 | 0,00E+00 | 3,95E-06 | 3,15E-02 | 0,00E+00 | -3,42E-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 production – Panels with wax glazing, 14 - 15 mm.

| Results per functional or declared unit |      |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| Hazardous waste disposed                | kg   | 1,31E-03 | 8,33E-08 | 9,97E-09 | 1,99E-07 | 1,74E-09 | 0,00E+00 | 2,72E-09 | 2,10E-09 | 0,00E+00 | -3,24E-08 |
| Non-hazardous waste disposed            | kg   | 1,26E-01 | 2,85E-04 | 1,45E-02 | 6,84E-04 | 7,43E-03 | 0,00E+00 | 9,33E-06 | 9,67E-02 | 0,00E+00 | -1,06E-01 |
| Radioactive waste disposed              | kg   | 1,86E-04 | 3,32E-06 | 6,15E-06 | 7,95E-06 | 4,22E-05 | 0,00E+00 | 1,09E-07 | 1,61E-04 | 0,00E+00 | -8,62E-03 |

### Output flows – Panels with wax glazing, 14 - 15 mm.

| Results per functional or declared unit |      |          |          |          |          |          |          |          |          |          |          |
|-----------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Indicator                               | Unit | A1       | A2       | A3       | A4       | A5       | 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 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Material for recycling                  | kg   | 4,75E-02 | 0,00E+00 | 1,64E-03 | 0,00E+00 | 2,58E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Materials for energy recovery           | kg   | 3,17E-02 | 0,00E+00 | 1,16E-01 | 0,00E+00 | 8,42E-03 | 0,00E+00 | 0,00E+00 | 7,10E+00 | 0,00E+00 | 0,00E+00 |
| Exported energy, electricity            | MJ   | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 9,96E-01 | 0,00E+00 | 0,00E+00 | 1,86E+01 | 0,00E+00 | 0,00E+00 |
| Exported energy, thermal                | MJ   | 4,08E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,79E+00 | 0,00E+00 | 0,00E+00 | 3,34E+01 | 0,00E+00 | 0,00E+00 |

### Potential environmental impact – Panels with wood stain, 14 – 15 mm.

| Results per functional or declared unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A1        | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| GWP-total                               | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -8,86E+00 | 2,00E-01 | 3,24E-01 | 4,69E-01 | 8,52E-01 | 0,00E+00 | 6,43E-03 | 1,29E+01 | 0,00E+00 | -4,09E-01 |
| GWP-fossil                              | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8,94E-01  | 1,88E-01 | 2,47E-01 | 3,53E-01 | 1,70E-01 | 0,00E+00 | 5,49E-03 | 2,10E-01 | 0,00E+00 | -3,97E-01 |
| GWP-biogenic                            | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -1,14E+01 | 1,10E-02 | 7,70E-02 | 1,14E-01 | 6,82E-01 | 0,00E+00 | 9,11E-04 | 1,27E+01 | 0,00E+00 | -1,11E-02 |
| GWP-luluc                               | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8,20E-03  | 7,41E-04 | 8,40E-05 | 1,76E-03 | 9,21E-05 | 0,00E+00 | 2,41E-05 | 1,25E-04 | 0,00E+00 | -1,02E-03 |
| ODP                                     | kg CFC 11 eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1,74E-15  | 2,49E-17 | 2,84E-11 | 5,91E-17 | 7,31E-16 | 0,00E+00 | 8,07E-19 | 1,58E-15 | 0,00E+00 | -2,48E-10 |
| AP                                      | mol H <sup>+</sup> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5,35E-03  | 3,51E-04 | 8,28E-04 | 1,12E-03 | 3,90E-04 | 0,00E+00 | 1,26E-05 | 1,85E-03 | 0,00E+00 | -5,10E-03 |
| EP-freshwater                           | kg P eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2,67E-04  | 4,28E-06 | 1,21E-06 | 1,02E-05 | 2,83E-07 | 0,00E+00 | 1,39E-07 | 2,39E-07 | 0,00E+00 | -5,60E-06 |
| EP-marine                               | kg N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5,01E-04  | 2,53E-04 | 1,59E-04 | 7,51E-04 | 9,94E-05 | 0,00E+00 | 8,83E-06 | 6,03E-04 | 0,00E+00 | -2,31E-03 |
| EP-terrestrial                          | mol N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4,97E-03  | 1,28E-03 | 1,61E-03 | 4,68E-03 | 1,19E-03 | 0,00E+00 | 4,83E-05 | 8,74E-03 | 0,00E+00 | -2,47E-02 |
| POCP                                    | kg NMVOC eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1,77E-03  | 2,43E-04 | 4,39E-04 | 6,70E-04 | 2,97E-04 | 0,00E+00 | 6,45E-06 | 1,64E-03 | 0,00E+00 | -6,22E-03 |
| ADP-minerals&metals*                    | kg Sb eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2,01E-06  | 1,10E-08 | 1,44E-08 | 2,60E-08 | 6,04E-06 | 0,00E+00 | 3,55E-10 | 2,51E-08 | 0,00E+00 | -2,68E-07 |
| ADP-fossil*                             | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,40E+01  | 1,92E+00 | 4,44E+00 | 4,57E+00 | 1,32E+00 | 0,00E+00 | 6,24E-02 | 2,78E+00 | 0,00E+00 | -2,44E+01 |
| WDP                                     | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1,85E-01  | 1,32E-03 | 1,14E-01 | 3,14E-03 | 7,79E-02 | 0,00E+00 | 4,29E-05 | 1,33E+00 | 0,00E+00 | -2,25E-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.

### Potential Environmental impact – additional mandatory indicator – Panels with wood stain 14 – 15 mm.

| Results per functional or declared unit |                        |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                   | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| GWP-GHG*                                | kg CO <sub>2</sub> eq. | 2,58E+00 | 2,00E-01 | 2,51E-01 | 4,69E-01 | 2,66E-01 | 0,00E+00 | 6,43E-03 | 2,14E+00 | 0,00E+00 | -4,09E-01 |

\*The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

### Use of resources – Panels with wood stain, 14 – 15 mm.

| Results per functional or declared unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| PERE                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6,90E+01 | 1,05E-01 | 3,99E-01 | 2,49E-01 | 2,17E-01 | 0,00E+00 | 3,39E-03 | 5,19E-01 | 0,00E+00 | -6,33E+01 |
| PERM                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,08E+02 | 0,00E+00 | 1,40E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PERT                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,77E+02 | 1,04E-01 | 3,99E-01 | 2,48E-01 | 2,17E-01 | 0,00E+00 | 3,39E-03 | 5,20E-01 | 0,00E+00 | -6,34E+01 |
| PENRE                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,88E+01 | 1,93E+00 | 4,44E+00 | 4,59E+00 | 1,32E+00 | 0,00E+00 | 6,26E-02 | 2,79E+00 | 0,00E+00 | -2,44E+01 |
| PENRM                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 2,19E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PENRT                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,88E+01 | 1,93E+00 | 4,44E+00 | 4,59E+00 | 1,32E+00 | 0,00E+00 | 6,26E-02 | 2,79E+00 | 0,00E+00 | -2,44E+01 |
| SM                                      | kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| RSF                                     | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| NRSF                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| FW                                      | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2,53E-02 | 1,22E-04 | 2,98E-03 | 2,89E-04 | 2,02E-03 | 0,00E+00 | 3,95E-06 | 3,14E-02 | 0,00E+00 | -3,42E-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 production – Panels with wood stain, 14 - 15 mm.

| Results per functional or declared unit |      |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| Hazardous waste disposed                | kg   | 1,31E-03 | 8,39E-08 | 9,96E-09 | 1,99E-07 | 1,74E-09 | 0,00E+00 | 2,72E-09 | 2,02E-09 | 0,00E+00 | -3,24E-08 |
| Non-hazardous waste disposed            | kg   | 6,57E-02 | 2,87E-04 | 1,43E-02 | 6,84E-04 | 7,31E-03 | 0,00E+00 | 9,33E-06 | 9,45E-02 | 0,00E+00 | -1,06E-01 |
| Radioactive waste disposed              | kg   | 1,16E-04 | 3,34E-06 | 6,04E-06 | 7,95E-06 | 4,22E-05 | 0,00E+00 | 1,09E-07 | 1,60E-04 | 0,00E+00 | -8,62E-03 |

### Output flows – Panels with wood stain, 14 - 15 mm.

| Results per functional or declared unit |      |          |          |          |          |          |          |          |          |          |          |
|-----------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Indicator                               | Unit | A1       | A2       | A3       | A4       | A5       | 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 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Material for recycling                  | kg   | 4,75E-02 | 0,00E+00 | 1,64E-03 | 0,00E+00 | 2,58E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Materials for energy recovery           | kg   | 3,17E-02 | 0,00E+00 | 1,16E-01 | 0,00E+00 | 8,42E-03 | 0,00E+00 | 0,00E+00 | 7,10E+00 | 0,00E+00 | 0,00E+00 |
| Exported energy, electricity            | MJ   | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 9,96E-01 | 0,00E+00 | 0,00E+00 | 1,86E+01 | 0,00E+00 | 0,00E+00 |
| Exported energy, thermal                | MJ   | 4,08E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,79E+00 | 0,00E+00 | 0,00E+00 | 3,34E+01 | 0,00E+00 | 0,00E+00 |

## Potential environmental impact – Untreated panels, 14 – 15 mm.

| Results per functional or declared unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A1        | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| GWP-total                               | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -9,17E+00 | 1,92E-01 | 3,22E-01 | 4,69E-01 | 8,51E-01 | 0,00E+00 | 6,43E-03 | 1,29E+01 | 0,00E+00 | -4,09E-01 |
| GWP-fossil                              | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5,78E-01  | 1,82E-01 | 2,45E-01 | 3,53E-01 | 1,69E-01 | 0,00E+00 | 5,49E-03 | 1,92E-01 | 0,00E+00 | -3,97E-01 |
| GWP-biogenic                            | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -1,14E+01 | 9,83E-03 | 7,70E-02 | 1,14E-01 | 6,82E-01 | 0,00E+00 | 9,11E-04 | 1,27E+01 | 0,00E+00 | -1,11E-02 |
| GWP-luluc                               | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8,08E-03  | 7,12E-04 | 8,38E-05 | 1,76E-03 | 9,20E-05 | 0,00E+00 | 2,41E-05 | 1,24E-04 | 0,00E+00 | -1,02E-03 |
| ODP                                     | kg CFC 11 eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6,24E-16  | 2,39E-17 | 2,84E-11 | 5,91E-17 | 7,31E-16 | 0,00E+00 | 8,07E-19 | 1,57E-15 | 0,00E+00 | -2,48E-10 |
| AP                                      | mol H <sup>+</sup> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4,40E-03  | 3,36E-04 | 8,28E-04 | 1,12E-03 | 3,89E-04 | 0,00E+00 | 1,26E-05 | 1,85E-03 | 0,00E+00 | -5,10E-03 |
| EP-freshwater                           | kg P eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2,66E-04  | 4,11E-06 | 1,21E-06 | 1,02E-05 | 2,83E-07 | 0,00E+00 | 1,39E-07 | 2,34E-07 | 0,00E+00 | -5,60E-06 |
| EP-marine                               | kg N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,22E-04  | 2,42E-04 | 1,59E-04 | 7,51E-04 | 9,93E-05 | 0,00E+00 | 8,83E-06 | 6,01E-04 | 0,00E+00 | -2,31E-03 |
| EP-terrestrial                          | mol N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2,99E-03  | 1,22E-03 | 1,61E-03 | 4,68E-03 | 1,19E-03 | 0,00E+00 | 4,83E-05 | 8,72E-03 | 0,00E+00 | -2,47E-02 |
| POCP                                    | kg NMVOC eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1,05E-03  | 2,35E-04 | 4,39E-04 | 6,70E-04 | 2,97E-04 | 0,00E+00 | 6,45E-06 | 1,64E-03 | 0,00E+00 | -6,22E-03 |
| ADP-minerals&metals*                    | kg Sb eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1,98E-06  | 1,05E-08 | 1,44E-08 | 2,60E-08 | 6,04E-06 | 0,00E+00 | 3,55E-10 | 2,50E-08 | 0,00E+00 | -2,68E-07 |
| ADP-fossil*                             | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7,68E+00  | 1,85E+00 | 4,44E+00 | 4,57E+00 | 1,32E+00 | 0,00E+00 | 6,24E-02 | 2,77E+00 | 0,00E+00 | -2,44E+01 |
| WDP                                     | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1,44E-01  | 1,27E-03 | 1,14E-01 | 3,14E-03 | 7,77E-02 | 0,00E+00 | 4,29E-05 | 1,33E+00 | 0,00E+00 | -2,25E-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.

## Potential Environmental impact – additional mandatory indicator – Untreated panels 14 – 15 mm.

| Results per functional or declared unit |                        |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                   | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| GWP-GHG*                                | kg CO <sub>2</sub> eq. | 2,27E+00 | 1,92E-01 | 2,49E-01 | 4,69E-01 | 2,65E-01 | 0,00E+00 | 6,43E-03 | 2,12E+00 | 0,00E+00 | -4,09E-01 |

\*The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

## Use of resources – Untreated panels, 14 – 15 mm.

| Results per functional or declared unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| PERE                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6,84E+01 | 1,00E-01 | 3,98E-01 | 2,49E-01 | 2,17E-01 | 0,00E+00 | 3,39E-03 | 5,16E-01 | 0,00E+00 | -6,33E+01 |
| PERM                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,08E+02 | 0,00E+00 | 1,40E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PERT                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,77E+02 | 1,00E-01 | 3,99E-01 | 2,48E-01 | 2,17E-01 | 0,00E+00 | 3,39E-03 | 5,17E-01 | 0,00E+00 | -6,34E+01 |
| PENRE                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,24E+01 | 1,85E+00 | 4,44E+00 | 4,59E+00 | 1,32E+00 | 0,00E+00 | 6,26E-02 | 2,77E+00 | 0,00E+00 | -2,44E+01 |
| PENRM                                   | MJ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0,00E+00 | 0,00E+00 | 2,19E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PENRT                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,24E+01 | 1,85E+00 | 4,44E+00 | 4,59E+00 | 1,32E+00 | 0,00E+00 | 6,26E-02 | 2,77E+00 | 0,00E+00 | -2,44E+01 |
| SM                                      | kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| RSF                                     | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| NRSF                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| FW                                      | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2,38E-02 | 1,17E-04 | 2,97E-03 | 2,89E-04 | 2,01E-03 | 0,00E+00 | 3,95E-06 | 3,13E-02 | 0,00E+00 | -3,42E-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 production – Untreated panels, 14 - 15 mm.

| Results per functional or declared unit |      |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| Hazardous waste disposed                | kg   | 1,31E-03 | 8,05E-08 | 9,95E-09 | 1,99E-07 | 1,73E-09 | 0,00E+00 | 2,72E-09 | 1,93E-09 | 0,00E+00 | -3,24E-08 |
| Non-hazardous waste disposed            | kg   | 1,32E-02 | 2,76E-04 | 1,40E-02 | 6,84E-04 | 7,19E-03 | 0,00E+00 | 9,33E-06 | 9,22E-02 | 0,00E+00 | -1,06E-01 |
| Radioactive waste disposed              | kg   | 1,61E-05 | 3,21E-06 | 5,93E-06 | 7,95E-06 | 4,21E-05 | 0,00E+00 | 1,09E-07 | 1,59E-04 | 0,00E+00 | -8,62E-03 |

## Output flows – Untreated panels, 14 - 15 mm.

| Results per functional or declared unit |      |          |          |          |          |          |          |          |          |          |          |
|-----------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Indicator                               | Unit | A1       | A2       | A3       | A4       | A5       | 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 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Material for recycling                  | kg   | 4,75E-02 | 0,00E+00 | 1,64E-03 | 0,00E+00 | 2,58E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Materials for energy recovery           | kg   | 3,17E-02 | 0,00E+00 | 1,16E-01 | 0,00E+00 | 8,42E-03 | 0,00E+00 | 0,00E+00 | 7,10E+00 | 0,00E+00 | 0,00E+00 |
| Exported energy, electricity            | MJ   | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 9,96E-01 | 0,00E+00 | 0,00E+00 | 1,86E+01 | 0,00E+00 | 0,00E+00 |
| Exported energy, thermal                | MJ   | 4,08E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,79E+00 | 0,00E+00 | 0,00E+00 | 3,34E+01 | 0,00E+00 | 0,00E+00 |

## Potential environmental impact – Untreated floors, 15 mm, 20 mm and 25 mm in descending order.

| Results per functional or declared unit |                        |           |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                   | A1        | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| GWP-total                               | kg CO <sub>2</sub> eq. | -9,17E+00 | 1,92E-01 | 3,50E-01 | 4,69E-01 | 1,13E+00 | 0,00E+00 | 6,43E-03 | 1,30E+01 | 0,00E+00 | -4,19E-01 |
|                                         |                        | -1,22E+01 | 2,22E-01 | 3,50E-01 | 6,24E-01 | 1,36E+00 | 0,00E+00 | 8,55E-03 | 1,73E+01 | 0,00E+00 | -5,46E-01 |
|                                         |                        | -1,52E+01 | 2,52E-01 | 3,50E-01 | 7,79E-01 | 1,58E+00 | 0,00E+00 | 1,07E-02 | 2,15E+01 | 0,00E+00 | -6,74E-01 |
| GWP-fossil                              | kg CO <sub>2</sub> eq. | 5,78E-01  | 1,82E-01 | 2,73E-01 | 3,53E-01 | 4,75E-01 | 0,00E+00 | 5,49E-03 | 2,77E-01 | 0,00E+00 | -4,07E-01 |
|                                         |                        | 7,44E-01  | 2,07E-01 | 2,73E-01 | 4,70E-01 | 4,79E-01 | 0,00E+00 | 7,31E-03 | 3,40E-01 | 0,00E+00 | -5,30E-01 |
|                                         |                        | 9,10E-01  | 2,32E-01 | 2,73E-01 | 5,86E-01 | 4,82E-01 | 0,00E+00 | 9,12E-03 | 4,03E-01 | 0,00E+00 | -6,54E-01 |
| GWP-biogenic                            | kg CO <sub>2</sub> eq. | -1,14E+01 | 9,83E-03 | 7,71E-02 | 1,14E-01 | 6,57E-01 | 0,00E+00 | 9,11E-04 | 1,27E+01 | 0,00E+00 | -1,12E-02 |
|                                         |                        | -1,52E+01 | 1,40E-02 | 7,71E-02 | 1,52E-01 | 8,78E-01 | 0,00E+00 | 1,22E-03 | 1,69E+01 | 0,00E+00 | -1,48E-02 |
|                                         |                        | -1,90E+01 | 1,82E-02 | 7,71E-02 | 1,90E-01 | 1,10E+00 | 0,00E+00 | 1,51E-03 | 2,11E+01 | 0,00E+00 | -1,84E-02 |
| GWP-luluc                               | kg CO <sub>2</sub> eq. | 8,08E-03  | 7,12E-04 | 8,63E-05 | 1,76E-03 | 2,82E-04 | 0,00E+00 | 2,41E-05 | 1,30E-04 | 0,00E+00 | -1,02E-03 |
|                                         |                        | 1,05E-02  | 8,23E-04 | 8,63E-05 | 2,34E-03 | 2,85E-04 | 0,00E+00 | 3,20E-05 | 1,71E-04 | 0,00E+00 | -1,36E-03 |
|                                         |                        | 1,30E-02  | 9,34E-04 | 8,63E-05 | 2,93E-03 | 2,87E-04 | 0,00E+00 | 3,99E-05 | 2,12E-04 | 0,00E+00 | -1,69E-03 |
| ODP                                     | kg CFC 11 eq.          | 6,24E-16  | 2,39E-17 | 2,84E-11 | 5,91E-17 | 2,66E-15 | 0,00E+00 | 8,07E-19 | 1,60E-15 | 0,00E+00 | -3,45E-10 |
|                                         |                        | 6,24E-16  | 2,76E-17 | 2,84E-11 | 7,86E-17 | 2,69E-15 | 0,00E+00 | 1,07E-18 | 2,12E-15 | 0,00E+00 | -3,45E-10 |
|                                         |                        | 6,24E-16  | 3,14E-17 | 2,84E-11 | 9,81E-17 | 2,72E-15 | 0,00E+00 | 1,34E-18 | 2,64E-15 | 0,00E+00 | -3,45E-10 |
| AP                                      | mol H <sup>+</sup> eq. | 4,40E-03  | 3,36E-04 | 9,74E-04 | 1,12E-03 | 1,88E-03 | 0,00E+00 | 1,26E-05 | 1,87E-03 | 0,00E+00 | -5,15E-03 |
|                                         |                        | 5,60E-03  | 3,91E-04 | 9,74E-04 | 1,49E-03 | 1,91E-03 | 0,00E+00 | 1,67E-05 | 2,48E-03 | 0,00E+00 | -6,80E-03 |
|                                         |                        | 6,79E-03  | 4,48E-04 | 9,74E-04 | 1,86E-03 | 1,94E-03 | 0,00E+00 | 2,09E-05 | 3,09E-03 | 0,00E+00 | -8,45E-03 |
| EP-freshwater                           | kg P eq.               | 2,66E-04  | 4,11E-06 | 1,23E-06 | 1,02E-05 | 1,07E-06 | 0,00E+00 | 1,39E-07 | 2,58E-07 | 0,00E+00 | -5,89E-06 |
|                                         |                        | 3,52E-04  | 4,76E-06 | 1,23E-06 | 1,35E-05 | 1,08E-06 | 0,00E+00 | 1,85E-07 | 3,35E-07 | 0,00E+00 | -7,49E-06 |
|                                         |                        | 4,38E-04  | 5,40E-06 | 1,23E-06 | 1,69E-05 | 1,09E-06 | 0,00E+00 | 2,31E-07 | 4,12E-07 | 0,00E+00 | -9,11E-06 |
| EP-marine                               | kg N eq.               | 3,22E-04  | 2,42E-04 | 1,80E-04 | 7,51E-04 | 3,32E-04 | 0,00E+00 | 8,83E-06 | 6,08E-04 | 0,00E+00 | -2,33E-03 |
|                                         |                        | 3,22E-04  | 2,82E-04 | 1,80E-04 | 1,00E-03 | 3,43E-04 | 0,00E+00 | 1,18E-05 | 8,07E-04 | 0,00E+00 | -3,08E-03 |
|                                         |                        | 3,22E-04  | 3,21E-04 | 1,80E-04 | 1,25E-03 | 3,53E-04 | 0,00E+00 | 1,46E-05 | 1,01E-03 | 0,00E+00 | -3,82E-03 |
| EP-terrestrial                          | mol N eq.              | 2,99E-03  | 1,22E-03 | 1,83E-03 | 4,68E-03 | 3,69E-03 | 0,00E+00 | 4,83E-05 | 8,83E-03 | 0,00E+00 | -2,49E-02 |
|                                         |                        | 2,99E-03  | 1,43E-03 | 1,83E-03 | 6,24E-03 | 3,84E-03 | 0,00E+00 | 6,43E-05 | 1,17E-02 | 0,00E+00 | -3,29E-02 |
|                                         |                        | 2,99E-03  | 1,65E-03 | 1,83E-03 | 7,77E-03 | 3,99E-03 | 0,00E+00 | 8,03E-05 | 1,46E-02 | 0,00E+00 | -4,09E-02 |
| POCP                                    | kg NMVOC eq.           | 1,05E-03  | 2,35E-04 | 5,08E-04 | 6,70E-04 | 1,14E-03 | 0,00E+00 | 6,45E-06 | 1,66E-03 | 0,00E+00 | -6,28E-03 |
|                                         |                        | 1,14E-03  | 2,63E-04 | 5,08E-04 | 8,92E-04 | 1,17E-03 | 0,00E+00 | 8,57E-06 | 2,20E-03 | 0,00E+00 | -8,28E-03 |
|                                         |                        | 1,24E-03  | 2,91E-04 | 5,08E-04 | 1,11E-03 | 1,20E-03 | 0,00E+00 | 1,07E-05 | 2,73E-03 | 0,00E+00 | -1,03E-02 |
| ADP-minerals&metals*                    | kg Sb eq.              | 1,98E-06  | 1,05E-08 | 1,69E-08 | 2,60E-08 | 7,83E-06 | 0,00E+00 | 3,55E-10 | 2,56E-08 | 0,00E+00 | -2,68E-07 |
|                                         |                        | 2,59E-06  | 1,22E-08 | 1,69E-08 | 3,47E-08 | 7,84E-06 | 0,00E+00 | 4,73E-10 | 3,39E-08 | 0,00E+00 | -3,56E-07 |
|                                         |                        | 3,19E-06  | 1,38E-08 | 1,69E-08 | 4,33E-08 | 7,84E-06 | 0,00E+00 | 5,90E-10 | 4,21E-08 | 0,00E+00 | -4,44E-07 |
| ADP-fossil*                             | MJ                     | 7,67E+00  | 1,84E+00 | 5,29E+00 | 4,57E+00 | 7,13E+00 | 0,00E+00 | 6,24E-02 | 2,83E+00 | 0,00E+00 | -2,47E+01 |
|                                         |                        | 1,00E+01  | 2,13E+00 | 5,29E+00 | 6,08E+00 | 7,18E+00 | 0,00E+00 | 8,30E-02 | 3,75E+00 | 0,00E+00 | -3,24E+01 |
|                                         |                        | 1,24E+01  | 2,42E+00 | 5,29E+00 | 7,59E+00 | 7,22E+00 | 0,00E+00 | 1,04E-01 | 4,66E+00 | 0,00E+00 | -4,02E+01 |
| WDP                                     | m <sup>3</sup>         | 1,44E-01  | 1,27E-03 | 1,31E-01 | 3,14E-03 | 1,12E-01 | 0,00E+00 | 4,29E-05 | 1,35E+00 | 0,00E+00 | -2,36E-01 |
|                                         |                        | 1,44E-01  | 1,47E-03 | 1,31E-01 | 4,18E-03 | 1,35E-01 | 0,00E+00 | 5,70E-05 | 1,79E+00 | 0,00E+00 | -3,01E-01 |
|                                         |                        | 1,44E-01  | 1,66E-03 | 1,31E-01 | 5,21E-03 | 1,58E-01 | 0,00E+00 | 7,12E-05 | 2,23E+00 | 0,00E+00 | -3,68E-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.

**Potential environmental impact – additional mandatory indicator – Untreated floors, 15 mm, 20 mm and 25 mm in descending order.**

| Results per functional or declared unit |                        |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                   | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| GWP-GHG*                                | kg CO <sub>2</sub> eq. | 2,27E+00 | 1,92E-01 | 2,77E-01 | 4,69E-01 | 5,44E-01 | 0,00E+00 | 6,43E-03 | 2,21E+00 | 0,00E+00 | -4,19E-01 |
|                                         |                        | 2,99E+00 | 2,22E-01 | 2,77E-01 | 6,24E-01 | 5,85E-01 | 0,00E+00 | 8,55E-03 | 2,91E+00 | 0,00E+00 | -5,46E-01 |
|                                         |                        | 3,73E+00 | 2,52E-01 | 2,77E-01 | 7,79E-01 | 6,28E-01 | 0,00E+00 | 1,07E-02 | 3,56E+00 | 0,00E+00 | -6,74E-01 |

\*The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013

**Use of resources – Untreated floors, 15 mm, 20 mm and 25 mm in descending order.**

| Results per functional or declared unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| PERE                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6,85E+01 | 1,00E-01 | 4,37E-01 | 2,48E-01 | 8,38E-01 | 0,00E+00 | 3,39E-03 | 5,32E-01 | 0,00E+00 | -6,37E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8,51E+01 | 1,16E-01 | 4,37E-01 | 3,30E-01 | 8,47E-01 | 0,00E+00 | 4,51E-03 | 7,03E-01 | 0,00E+00 | -8,44E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,02E+02 | 1,32E-01 | 4,36E-01 | 4,12E-01 | 8,56E-01 | 0,00E+00 | 5,63E-03 | 8,73E-01 | 0,00E+00 | -1,05E+02 |
| PERM                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,08E+02 | 0,00E+00 | 1,40E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,43E+02 | 0,00E+00 | 1,40E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,79E+02 | 0,00E+00 | 1,40E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PERT                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,76E+02 | 1,00E-01 | 4,37E-01 | 2,48E-01 | 8,38E-01 | 0,00E+00 | 3,39E-03 | 5,32E-01 | 0,00E+00 | -6,37E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,28E+02 | 1,16E-01 | 4,37E-01 | 3,30E-01 | 8,47E-01 | 0,00E+00 | 4,51E-03 | 7,03E-01 | 0,00E+00 | -8,44E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,80E+02 | 1,32E-01 | 4,37E-01 | 4,12E-01 | 8,56E-01 | 0,00E+00 | 5,63E-03 | 8,73E-01 | 0,00E+00 | -1,05E+02 |
| PENRE                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,24E+01 | 1,85E+00 | 5,29E+00 | 4,59E+00 | 7,14E+00 | 0,00E+00 | 6,26E-02 | 2,83E+00 | 0,00E+00 | -2,47E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,63E+01 | 2,14E+00 | 5,29E+00 | 6,10E+00 | 7,19E+00 | 0,00E+00 | 8,33E-02 | 3,75E+00 | 0,00E+00 | -3,24E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,03E+01 | 2,43E+00 | 5,29E+00 | 7,61E+00 | 7,24E+00 | 0,00E+00 | 1,04E-01 | 4,66E+00 | 0,00E+00 | -4,02E+01 |
| PENRM                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 2,65E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 2,65E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 2,65E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PENRT                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,24E+01 | 1,85E+00 | 5,29E+00 | 4,59E+00 | 7,14E+00 | 0,00E+00 | 6,26E-02 | 2,83E+00 | 0,00E+00 | -2,47E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,63E+01 | 2,14E+00 | 5,29E+00 | 6,10E+00 | 7,19E+00 | 0,00E+00 | 8,33E-02 | 3,75E+00 | 0,00E+00 | -3,24E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,03E+01 | 2,43E+00 | 5,29E+00 | 7,61E+00 | 7,24E+00 | 0,00E+00 | 1,04E-01 | 4,66E+00 | 0,00E+00 | -4,02E+01 |
| SM                                      | kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| RSF                                     | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| NRSF                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| FW                                      | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2,38E-02 | 1,17E-04 | 3,38E-03 | 2,89E-04 | 3,35E-03 | 0,00E+00 | 3,95E-06 | 3,17E-02 | 0,00E+00 | -3,45E-02 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,27E-02 | 1,35E-04 | 3,38E-03 | 3,85E-04 | 3,90E-03 | 0,00E+00 | 5,26E-06 | 4,20E-02 | 0,00E+00 | -4,55E-02 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,16E-02 | 1,53E-04 | 3,38E-03 | 4,81E-04 | 4,44E-03 | 0,00E+00 | 6,56E-06 | 5,24E-02 | 0,00E+00 | -5,65E-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 production – Untreated floors, 15 mm, 20 mm and 25 mm in descending order.

| Results per functional or declared unit |      |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| Hazardous waste disposed                | kg   | 1,31E-03 | 8,05E-08 | 1,02E-08 | 1,99E-07 | 7,41E-09 | 0,00E+00 | 2,72E-09 | 2,33E-09 | 0,00E+00 | -3,25E-08 |
|                                         |      | 1,74E-03 | 9,31E-08 | 1,02E-08 | 2,65E-07 | 7,49E-09 | 0,00E+00 | 3,62E-09 | 2,97E-09 | 0,00E+00 | -4,30E-08 |
|                                         |      | 2,17E-03 | 1,06E-07 | 1,02E-08 | 3,31E-07 | 7,57E-09 | 0,00E+00 | 4,52E-09 | 3,61E-09 | 0,00E+00 | -5,36E-08 |
| Non-hazardous waste disposed            | kg   | 1,32E-02 | 2,76E-04 | 1,40E-02 | 6,84E-04 | 1,06E-01 | 0,00E+00 | 9,33E-06 | 1,03E-01 | 0,00E+00 | -1,06E-01 |
|                                         |      | 1,45E-02 | 3,19E-04 | 1,40E-02 | 9,09E-04 | 1,08E-01 | 0,00E+00 | 1,24E-05 | 1,33E-01 | 0,00E+00 | -1,41E-01 |
|                                         |      | 1,59E-02 | 3,62E-04 | 1,40E-02 | 1,13E-03 | 1,10E-01 | 0,00E+00 | 1,55E-05 | 1,64E-01 | 0,00E+00 | -1,75E-01 |
| Radioactive waste disposed              | kg   | 1,61E-05 | 3,21E-06 | 6,17E-06 | 7,95E-06 | 2,01E-04 | 0,00E+00 | 1,09E-07 | 1,63E-04 | 0,00E+00 | -8,63E-03 |
|                                         |      | 1,61E-05 | 3,71E-06 | 6,17E-06 | 1,06E-05 | 2,04E-04 | 0,00E+00 | 1,44E-07 | 2,16E-04 | 0,00E+00 | -1,15E-02 |
|                                         |      | 1,61E-05 | 4,21E-06 | 6,17E-06 | 1,32E-05 | 2,07E-04 | 0,00E+00 | 1,80E-07 | 2,68E-04 | 0,00E+00 | -1,43E-02 |

## Output flows – Untreated floors, 15 mm, 20 mm and 25 mm in descending order.

| Results per functional or declared unit |      |          |          |          |          |          |          |          |          |          |          |
|-----------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Indicator                               | Unit | A1       | A2       | A3       | A4       | A5       | 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 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Material for recycling                  | kg   | 4,75E-02 | 0,00E+00 | 2,24E-03 | 0,00E+00 | 3,58E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 6,31E-02 | 0,00E+00 | 2,24E-03 | 0,00E+00 | 3,58E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 7,87E-02 | 0,00E+00 | 2,24E-03 | 0,00E+00 | 3,58E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Materials for energy recovery           | kg   | 3,17E-02 | 0,00E+00 | 1,16E-01 | 0,00E+00 | 8,42E-03 | 0,00E+00 | 0,00E+00 | 7,10E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 4,21E-02 | 0,00E+00 | 1,16E-01 | 0,00E+00 | 8,42E-03 | 0,00E+00 | 0,00E+00 | 9,45E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 5,25E-02 | 0,00E+00 | 1,16E-01 | 0,00E+00 | 8,42E-03 | 0,00E+00 | 0,00E+00 | 1,18E+01 | 0,00E+00 | 0,00E+00 |
| Exported energy, electricity            | MJ   | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 9,96E-01 | 0,00E+00 | 0,00E+00 | 1,86E+01 | 0,00E+00 | 0,00E+00 |
|                                         |      | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,32E+00 | 0,00E+00 | 0,00E+00 | 2,47E+01 | 0,00E+00 | 0,00E+00 |
|                                         |      | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,64E+00 | 0,00E+00 | 0,00E+00 | 3,08E+01 | 0,00E+00 | 0,00E+00 |
| Exported energy, thermal                | MJ   | 4,08E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,79E+00 | 0,00E+00 | 0,00E+00 | 3,34E+01 | 0,00E+00 | 0,00E+00 |
|                                         |      | 5,42E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 2,37E+00 | 0,00E+00 | 0,00E+00 | 4,44E+01 | 0,00E+00 | 0,00E+00 |
|                                         |      | 6,76E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 2,95E+00 | 0,00E+00 | 0,00E+00 | 5,54E+01 | 0,00E+00 | 0,00E+00 |

## Potential environmental impact – Floors with ultra protect treatment, 15 mm, 20 mm and 25 mm, in descending order.

| Results per functional or declared unit |                        |           |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                   | A1        | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| GWP-total                               | kg CO <sub>2</sub> eq. | -8,94E+00 | 1,95E-01 | 3,54E-01 | 4,69E-01 | 9,04E-01 | 0,00E+00 | 6,43E-03 | 1,29E+01 | 0,00E+00 | -4,19E-01 |
|                                         |                        | -1,20E+01 | 2,25E-01 | 3,54E-01 | 6,24E-01 | 1,13E+00 | 0,00E+00 | 8,55E-03 | 1,72E+01 | 0,00E+00 | -5,46E-01 |
|                                         |                        | -1,50E+01 | 2,54E-01 | 3,54E-01 | 7,79E-01 | 1,35E+00 | 0,00E+00 | 1,07E-02 | 2,14E+01 | 0,00E+00 | -6,74E-01 |
| GWP-fossil                              | kg CO <sub>2</sub> eq. | 8,13E-01  | 1,84E-01 | 2,77E-01 | 3,53E-01 | 2,22E-01 | 0,00E+00 | 5,49E-03 | 2,26E-01 | 0,00E+00 | -4,07E-01 |
|                                         |                        | 9,79E-01  | 2,09E-01 | 2,77E-01 | 4,70E-01 | 2,25E-01 | 0,00E+00 | 7,31E-03 | 2,89E-01 | 0,00E+00 | -5,30E-01 |
|                                         |                        | 1,15E+00  | 2,35E-01 | 2,77E-01 | 5,86E-01 | 2,28E-01 | 0,00E+00 | 9,12E-03 | 3,52E-01 | 0,00E+00 | -6,54E-01 |
| GWP-biogenic                            | kg CO <sub>2</sub> eq. | -1,14E+01 | 1,02E-02 | 7,71E-02 | 1,14E-01 | 6,82E-01 | 0,00E+00 | 9,11E-04 | 1,27E+01 | 0,00E+00 | -1,12E-02 |
|                                         |                        | -1,52E+01 | 1,44E-02 | 7,71E-02 | 1,52E-01 | 9,03E-01 | 0,00E+00 | 1,22E-03 | 1,69E+01 | 0,00E+00 | -1,48E-02 |
|                                         |                        | -1,90E+01 | 1,86E-02 | 7,71E-02 | 1,90E-01 | 1,12E+00 | 0,00E+00 | 1,51E-03 | 2,11E+01 | 0,00E+00 | -1,84E-02 |
| GWP-luluc                               | kg CO <sub>2</sub> eq. | 8,18E-03  | 7,22E-04 | 8,65E-05 | 1,76E-03 | 1,17E-04 | 0,00E+00 | 2,41E-05 | 1,26E-04 | 0,00E+00 | -1,02E-03 |
|                                         |                        | 1,06E-02  | 8,34E-04 | 8,65E-05 | 2,34E-03 | 1,19E-04 | 0,00E+00 | 3,20E-05 | 1,67E-04 | 0,00E+00 | -1,36E-03 |
|                                         |                        | 1,31E-02  | 9,45E-04 | 8,65E-05 | 2,93E-03 | 1,22E-04 | 0,00E+00 | 3,99E-05 | 2,08E-04 | 0,00E+00 | -1,69E-03 |
| ODP                                     | kg CFC 11 eq.          | 1,80E-15  | 2,42E-17 | 2,84E-11 | 5,91E-17 | 9,23E-16 | 0,00E+00 | 8,07E-19 | 1,58E-15 | 0,00E+00 | -3,45E-10 |
|                                         |                        | 1,80E-15  | 2,80E-17 | 2,84E-11 | 7,86E-17 | 9,50E-16 | 0,00E+00 | 1,07E-18 | 2,10E-15 | 0,00E+00 | -3,45E-10 |
|                                         |                        | 1,80E-15  | 3,17E-17 | 2,84E-11 | 9,81E-17 | 9,77E-16 | 0,00E+00 | 1,34E-18 | 2,62E-15 | 0,00E+00 | -3,45E-10 |
| AP                                      | mol H <sup>+</sup> eq. | 5,02E-03  | 3,41E-04 | 9,75E-04 | 1,12E-03 | 4,75E-04 | 0,00E+00 | 1,26E-05 | 1,86E-03 | 0,00E+00 | -5,15E-03 |
|                                         |                        | 6,22E-03  | 3,97E-04 | 9,75E-04 | 1,49E-03 | 5,07E-04 | 0,00E+00 | 1,67E-05 | 2,47E-03 | 0,00E+00 | -6,80E-03 |
|                                         |                        | 7,41E-03  | 4,54E-04 | 9,75E-04 | 1,86E-03 | 5,40E-04 | 0,00E+00 | 2,09E-05 | 3,08E-03 | 0,00E+00 | -8,45E-03 |
| EP-freshwater                           | kg P eq.               | 2,67E-04  | 4,17E-06 | 1,23E-06 | 1,02E-05 | 3,61E-07 | 0,00E+00 | 1,39E-07 | 2,44E-07 | 0,00E+00 | -5,89E-06 |
|                                         |                        | 3,53E-04  | 4,82E-06 | 1,23E-06 | 1,35E-05 | 3,68E-07 | 0,00E+00 | 1,85E-07 | 3,21E-07 | 0,00E+00 | -7,49E-06 |
|                                         |                        | 4,39E-04  | 5,46E-06 | 1,23E-06 | 1,69E-05 | 3,74E-07 | 0,00E+00 | 2,31E-07 | 3,98E-07 | 0,00E+00 | -9,11E-06 |
| EP-marine                               | kg N eq.               | 4,51E-04  | 2,46E-04 | 1,81E-04 | 7,51E-04 | 1,19E-04 | 0,00E+00 | 8,83E-06 | 6,04E-04 | 0,00E+00 | -2,33E-03 |
|                                         |                        | 4,51E-04  | 2,86E-04 | 1,81E-04 | 1,00E-03 | 1,29E-04 | 0,00E+00 | 1,18E-05 | 8,03E-04 | 0,00E+00 | -3,08E-03 |
|                                         |                        | 4,51E-04  | 3,26E-04 | 1,81E-04 | 1,25E-03 | 1,40E-04 | 0,00E+00 | 1,46E-05 | 1,00E-03 | 0,00E+00 | -3,82E-03 |
| EP-terrestrial                          | mol N eq.              | 4,38E-03  | 1,24E-03 | 1,84E-03 | 4,68E-03 | 1,40E-03 | 0,00E+00 | 4,83E-05 | 8,76E-03 | 0,00E+00 | -2,49E-02 |
|                                         |                        | 4,38E-03  | 1,45E-03 | 1,84E-03 | 6,24E-03 | 1,55E-03 | 0,00E+00 | 6,43E-05 | 1,16E-02 | 0,00E+00 | -3,29E-02 |
|                                         |                        | 4,38E-03  | 1,67E-03 | 1,84E-03 | 7,77E-03 | 1,71E-03 | 0,00E+00 | 8,03E-05 | 1,45E-02 | 0,00E+00 | -4,09E-02 |
| POCP                                    | kg NMVOC eq.           | 1,48E-03  | 2,38E-04 | 5,08E-04 | 6,70E-04 | 3,57E-04 | 0,00E+00 | 6,45E-06 | 1,65E-03 | 0,00E+00 | -6,28E-03 |
|                                         |                        | 1,57E-03  | 2,66E-04 | 5,08E-04 | 8,92E-04 | 3,85E-04 | 0,00E+00 | 8,57E-06 | 2,19E-03 | 0,00E+00 | -8,28E-03 |
|                                         |                        | 1,67E-03  | 2,94E-04 | 5,08E-04 | 1,11E-03 | 4,14E-04 | 0,00E+00 | 1,07E-05 | 2,72E-03 | 0,00E+00 | -1,03E-02 |
| ADP-minerals&metals*                    | kg Sb eq.              | 2,01E-06  | 1,07E-08 | 1,70E-08 | 2,60E-08 | 7,80E-06 | 0,00E+00 | 3,55E-10 | 2,52E-08 | 0,00E+00 | -2,68E-07 |
|                                         |                        | 2,62E-06  | 1,23E-08 | 1,70E-08 | 3,47E-08 | 7,80E-06 | 0,00E+00 | 4,73E-10 | 3,35E-08 | 0,00E+00 | -3,56E-07 |
|                                         |                        | 3,23E-06  | 1,40E-08 | 1,69E-08 | 4,32E-08 | 7,80E-06 | 0,00E+00 | 5,90E-10 | 4,18E-08 | 0,00E+00 | -4,44E-07 |
| ADP-fossil*                             | MJ                     | 1,30E+01  | 1,87E+00 | 5,29E+00 | 4,57E+00 | 1,65E+00 | 0,00E+00 | 6,24E-02 | 2,79E+00 | 0,00E+00 | -2,47E+01 |
|                                         |                        | 1,53E+01  | 2,16E+00 | 5,29E+00 | 6,08E+00 | 1,70E+00 | 0,00E+00 | 8,30E-02 | 3,71E+00 | 0,00E+00 | -3,24E+01 |
|                                         |                        | 1,77E+01  | 2,45E+00 | 5,29E+00 | 7,59E+00 | 1,75E+00 | 0,00E+00 | 1,04E-01 | 4,63E+00 | 0,00E+00 | -4,02E+01 |
| WDP                                     | m <sup>3</sup>         | 2,03E-01  | 1,29E-03 | 1,32E-01 | 3,14E-03 | 8,03E-02 | 0,00E+00 | 4,29E-05 | 1,34E+00 | 0,00E+00 | -2,36E-01 |
|                                         |                        | 2,03E-01  | 1,48E-03 | 1,32E-01 | 4,18E-03 | 1,03E-01 | 0,00E+00 | 5,70E-05 | 1,78E+00 | 0,00E+00 | -3,01E-01 |
|                                         |                        | 2,03E-01  | 1,68E-03 | 1,32E-01 | 5,21E-03 | 1,27E-01 | 0,00E+00 | 7,12E-05 | 2,22E+00 | 0,00E+00 | -3,68E-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.

**Potential environmental impact – additional mandatory indicator – Untreated floors, 15 mm, 20 mm and 25 mm in descending order.**

| Results per functional or declared unit |                        |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                   | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| GWP-GHG*                                | kg CO <sub>2</sub> eq. | 2,50E+00 | 1,95E-01 | 2,81E-01 | 4,69E-01 | 3,17E-01 | 0,00E+00 | 6,43E-03 | 2,15E+00 | 0,00E+00 | -4,19E-01 |
|                                         |                        | 3,22E+00 | 2,25E-01 | 2,81E-01 | 6,24E-01 | 3,58E-01 | 0,00E+00 | 8,55E-03 | 2,86E+00 | 0,00E+00 | -5,46E-01 |
|                                         |                        | 3,96E+00 | 2,54E-01 | 2,81E-01 | 7,79E-01 | 4,00E-01 | 0,00E+00 | 1,07E-02 | 3,50E+00 | 0,00E+00 | -6,74E-01 |

\*The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013

**Use of resources – Floors with ultra protect treatment, 15 mm, 20 mm and 25 mm in descending order.**

| Results per functional or declared unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| PERE                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6,88E+01 | 1,02E-01 | 4,37E-01 | 2,48E-01 | 2,74E-01 | 0,00E+00 | 3,39E-03 | 5,23E-01 | 0,00E+00 | -6,37E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8,55E+01 | 1,18E-01 | 4,37E-01 | 3,31E-01 | 2,83E-01 | 0,00E+00 | 4,51E-03 | 6,93E-01 | 0,00E+00 | -8,43E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,02E+02 | 1,33E-01 | 4,37E-01 | 4,12E-01 | 2,92E-01 | 0,00E+00 | 5,63E-03 | 8,64E-01 | 0,00E+00 | -1,05E+02 |
| PERM                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,08E+02 | 0,00E+00 | 1,40E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,43E+02 | 0,00E+00 | 1,40E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,79E+02 | 0,00E+00 | 1,40E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PERT                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,77E+02 | 1,02E-01 | 4,37E-01 | 2,48E-01 | 2,74E-01 | 0,00E+00 | 3,39E-03 | 5,23E-01 | 0,00E+00 | -6,37E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,29E+02 | 1,18E-01 | 4,37E-01 | 3,31E-01 | 2,83E-01 | 0,00E+00 | 4,51E-03 | 6,93E-01 | 0,00E+00 | -8,43E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,81E+02 | 1,33E-01 | 4,37E-01 | 4,12E-01 | 2,92E-01 | 0,00E+00 | 5,63E-03 | 8,64E-01 | 0,00E+00 | -1,05E+02 |
| PENRE                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,77E+01 | 1,88E+00 | 5,30E+00 | 4,59E+00 | 1,66E+00 | 0,00E+00 | 6,26E-02 | 2,80E+00 | 0,00E+00 | -2,47E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,16E+01 | 2,17E+00 | 5,30E+00 | 6,10E+00 | 1,71E+00 | 0,00E+00 | 8,33E-02 | 3,71E+00 | 0,00E+00 | -3,24E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,56E+01 | 2,46E+00 | 5,30E+00 | 7,61E+00 | 1,76E+00 | 0,00E+00 | 1,04E-01 | 4,63E+00 | 0,00E+00 | -4,02E+01 |
| PENRM                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 1,97E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 1,97E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 1,97E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PENRT                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,77E+01 | 1,88E+00 | 5,30E+00 | 4,59E+00 | 1,66E+00 | 0,00E+00 | 6,26E-02 | 2,80E+00 | 0,00E+00 | -2,47E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,16E+01 | 2,17E+00 | 5,30E+00 | 6,10E+00 | 1,71E+00 | 0,00E+00 | 8,33E-02 | 3,71E+00 | 0,00E+00 | -3,24E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,56E+01 | 2,46E+00 | 5,30E+00 | 7,61E+00 | 1,76E+00 | 0,00E+00 | 1,04E-01 | 4,63E+00 | 0,00E+00 | -4,02E+01 |
| SM                                      | kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| RSF                                     | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| NRSF                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| FW                                      | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2,57E-02 | 1,19E-04 | 3,40E-03 | 2,89E-04 | 2,13E-03 | 0,00E+00 | 3,95E-06 | 3,15E-02 | 0,00E+00 | -3,45E-02 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,45E-02 | 1,37E-04 | 3,40E-03 | 3,85E-04 | 2,67E-03 | 0,00E+00 | 5,26E-06 | 4,18E-02 | 0,00E+00 | -4,55E-02 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,34E-02 | 1,55E-04 | 3,40E-03 | 4,81E-04 | 3,21E-03 | 0,00E+00 | 6,56E-06 | 5,21E-02 | 0,00E+00 | -5,65E-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 production – Floors with ultra protect treatment, 15 mm, 20 mm and 25 mm in descending order.**

| Results per functional or declared unit |      |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| Hazardous waste disposed                | kg   | 1,31E-03 | 8,17E-08 | 1,02E-08 | 1,99E-07 | 2,18E-09 | 0,00E+00 | 2,72E-09 | 2,09E-09 | 0,00E+00 | -3,25E-08 |
|                                         |      | 1,74E-03 | 9,43E-08 | 1,02E-08 | 2,65E-07 | 2,26E-09 | 0,00E+00 | 3,62E-09 | 2,73E-09 | 0,00E+00 | -4,30E-08 |
|                                         |      | 2,17E-03 | 1,07E-07 | 1,02E-08 | 3,31E-07 | 2,34E-09 | 0,00E+00 | 4,52E-09 | 3,36E-09 | 0,00E+00 | -5,36E-08 |
| Non-hazardous waste disposed            | kg   | 3,91E-02 | 2,80E-04 | 1,45E-02 | 6,84E-04 | 8,06E-03 | 0,00E+00 | 9,33E-06 | 9,64E-02 | 0,00E+00 | -1,06E-01 |
|                                         |      | 4,05E-02 | 3,23E-04 | 1,45E-02 | 9,09E-04 | 9,66E-03 | 0,00E+00 | 1,24E-05 | 1,27E-01 | 0,00E+00 | -1,41E-01 |
|                                         |      | 4,19E-02 | 3,66E-04 | 1,45E-02 | 1,13E-03 | 1,13E-02 | 0,00E+00 | 1,55E-05 | 1,57E-01 | 0,00E+00 | -1,75E-01 |
| Radioactive waste disposed              | kg   | 1,33E-04 | 3,26E-06 | 6,37E-06 | 7,95E-06 | 5,25E-05 | 0,00E+00 | 1,09E-07 | 1,60E-04 | 0,00E+00 | -8,63E-03 |
|                                         |      | 1,33E-04 | 3,76E-06 | 6,37E-06 | 1,06E-05 | 5,52E-05 | 0,00E+00 | 1,44E-07 | 2,13E-04 | 0,00E+00 | -1,15E-02 |
|                                         |      | 1,33E-04 | 4,26E-06 | 6,37E-06 | 1,32E-05 | 5,80E-05 | 0,00E+00 | 1,80E-07 | 2,65E-04 | 0,00E+00 | -1,43E-02 |

**Output flows – Floors with ultra protect treatment, 15 mm, 20 mm and 25 mm in descending order.**

| Results per functional or declared unit |      |          |          |          |          |          |          |          |          |          |          |
|-----------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Indicator                               | Unit | A1       | A2       | A3       | A4       | A5       | 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 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Material for recycling                  | kg   | 4,75E-02 | 0,00E+00 | 2,24E-03 | 0,00E+00 | 3,58E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 6,31E-02 | 0,00E+00 | 2,24E-03 | 0,00E+00 | 3,58E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 7,87E-02 | 0,00E+00 | 2,24E-03 | 0,00E+00 | 3,58E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Materials for energy recovery           | kg   | 3,17E-02 | 0,00E+00 | 1,16E-01 | 0,00E+00 | 8,42E-03 | 0,00E+00 | 0,00E+00 | 7,10E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 4,21E-02 | 0,00E+00 | 1,16E-01 | 0,00E+00 | 8,42E-03 | 0,00E+00 | 0,00E+00 | 9,45E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 5,25E-02 | 0,00E+00 | 1,16E-01 | 0,00E+00 | 8,42E-03 | 0,00E+00 | 0,00E+00 | 1,18E+01 | 0,00E+00 | 0,00E+00 |
| Exported energy, electricity            | MJ   | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 9,96E-01 | 0,00E+00 | 0,00E+00 | 1,86E+01 | 0,00E+00 | 0,00E+00 |
|                                         |      | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,32E+00 | 0,00E+00 | 0,00E+00 | 2,47E+01 | 0,00E+00 | 0,00E+00 |
|                                         |      | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,64E+00 | 0,00E+00 | 0,00E+00 | 3,08E+01 | 0,00E+00 | 0,00E+00 |
| Exported energy, thermal                | MJ   | 4,08E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,79E+00 | 0,00E+00 | 0,00E+00 | 3,34E+01 | 0,00E+00 | 0,00E+00 |
|                                         |      | 5,42E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 2,37E+00 | 0,00E+00 | 0,00E+00 | 4,44E+01 | 0,00E+00 | 0,00E+00 |
|                                         |      | 6,76E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 2,95E+00 | 0,00E+00 | 0,00E+00 | 5,54E+01 | 0,00E+00 | 0,00E+00 |

## Potential environmental impact – Floors with wood stain and ultra protect treatment, 15 mm, 20 mm and 25 mm, in descending order.

| Results per functional or declared unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A1        | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| GWP-total                               | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -8,69E+00 | 2,01E-01 | 3,56E-01 | 4,69E-01 | 9,05E-01 | 0,00E+00 | 6,43E-03 | 1,30E+01 | 0,00E+00 | -4,19E-01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -1,17E+01 | 2,31E-01 | 3,56E-01 | 6,24E-01 | 1,13E+00 | 0,00E+00 | 8,55E-03 | 1,73E+01 | 0,00E+00 | -5,46E-01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -1,47E+01 | 2,61E-01 | 3,56E-01 | 7,79E-01 | 1,35E+00 | 0,00E+00 | 1,07E-02 | 2,15E+01 | 0,00E+00 | -6,74E-01 |
| GWP-fossil                              | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1,06E+00  | 1,90E-01 | 2,79E-01 | 3,53E-01 | 2,23E-01 | 0,00E+00 | 5,49E-03 | 2,46E-01 | 0,00E+00 | -4,07E-01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1,23E+00  | 2,15E-01 | 2,79E-01 | 4,70E-01 | 2,26E-01 | 0,00E+00 | 7,31E-03 | 3,09E-01 | 0,00E+00 | -5,30E-01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1,39E+00  | 2,40E-01 | 2,79E-01 | 5,86E-01 | 2,30E-01 | 0,00E+00 | 9,12E-03 | 3,72E-01 | 0,00E+00 | -6,54E-01 |
| GWP-biogenic                            | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -1,14E+01 | 1,12E-02 | 7,71E-02 | 1,14E-01 | 6,82E-01 | 0,00E+00 | 9,11E-04 | 1,27E+01 | 0,00E+00 | -1,12E-02 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -1,52E+01 | 1,53E-02 | 7,71E-02 | 1,52E-01 | 9,03E-01 | 0,00E+00 | 1,22E-03 | 1,69E+01 | 0,00E+00 | -1,48E-02 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -1,90E+01 | 1,95E-02 | 7,71E-02 | 1,90E-01 | 1,12E+00 | 0,00E+00 | 1,51E-03 | 2,11E+01 | 0,00E+00 | -1,84E-02 |
| GWP-luluc                               | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8,25E-03  | 7,47E-04 | 8,67E-05 | 1,76E-03 | 1,17E-04 | 0,00E+00 | 2,41E-05 | 1,28E-04 | 0,00E+00 | -1,02E-03 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1,07E-02  | 8,58E-04 | 8,67E-05 | 2,34E-03 | 1,19E-04 | 0,00E+00 | 3,20E-05 | 1,69E-04 | 0,00E+00 | -1,36E-03 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1,32E-02  | 9,69E-04 | 8,67E-05 | 2,93E-03 | 1,22E-04 | 0,00E+00 | 3,99E-05 | 2,10E-04 | 0,00E+00 | -1,69E-03 |
| ODP                                     | kg CFC 11 eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2,26E-15  | 2,51E-17 | 2,84E-11 | 5,91E-17 | 9,23E-16 | 0,00E+00 | 8,07E-19 | 1,59E-15 | 0,00E+00 | -3,45E-10 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2,26E-15  | 2,88E-17 | 2,84E-11 | 7,86E-17 | 9,51E-16 | 0,00E+00 | 1,07E-18 | 2,11E-15 | 0,00E+00 | -3,45E-10 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2,26E-15  | 3,25E-17 | 2,84E-11 | 9,81E-17 | 9,78E-16 | 0,00E+00 | 1,34E-18 | 2,63E-15 | 0,00E+00 | -3,45E-10 |
| AP                                      | mol H <sup>+</sup> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5,45E-03  | 3,54E-04 | 9,76E-04 | 1,12E-03 | 4,76E-04 | 0,00E+00 | 1,26E-05 | 1,86E-03 | 0,00E+00 | -5,15E-03 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6,65E-03  | 4,10E-04 | 9,76E-04 | 1,49E-03 | 5,07E-04 | 0,00E+00 | 1,67E-05 | 2,47E-03 | 0,00E+00 | -6,80E-03 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7,84E-03  | 4,66E-04 | 9,76E-04 | 1,86E-03 | 5,41E-04 | 0,00E+00 | 2,09E-05 | 3,08E-03 | 0,00E+00 | -8,45E-03 |
| EP-freshwater                           | kg P eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2,67E-04  | 4,31E-06 | 1,23E-06 | 1,02E-05 | 3,61E-07 | 0,00E+00 | 1,39E-07 | 2,49E-07 | 0,00E+00 | -5,89E-06 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3,53E-04  | 4,96E-06 | 1,23E-06 | 1,35E-05 | 3,68E-07 | 0,00E+00 | 1,85E-07 | 3,26E-07 | 0,00E+00 | -7,49E-06 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4,39E-04  | 5,60E-06 | 1,23E-06 | 1,69E-05 | 3,74E-07 | 0,00E+00 | 2,31E-07 | 4,03E-07 | 0,00E+00 | -9,11E-06 |
| EP-marine                               | kg N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5,60E-04  | 2,54E-04 | 1,81E-04 | 7,51E-04 | 1,19E-04 | 0,00E+00 | 8,83E-06 | 6,06E-04 | 0,00E+00 | -2,33E-03 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5,60E-04  | 2,95E-04 | 1,81E-04 | 1,00E-03 | 1,30E-04 | 0,00E+00 | 1,18E-05 | 8,05E-04 | 0,00E+00 | -3,08E-03 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5,60E-04  | 3,35E-04 | 1,81E-04 | 1,25E-03 | 1,40E-04 | 0,00E+00 | 1,46E-05 | 1,00E-03 | 0,00E+00 | -3,82E-03 |
| EP-terrestrial                          | mol N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5,60E-03  | 1,29E-03 | 1,84E-03 | 4,68E-03 | 1,40E-03 | 0,00E+00 | 4,83E-05 | 8,79E-03 | 0,00E+00 | -2,49E-02 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5,60E-03  | 1,50E-03 | 1,84E-03 | 6,24E-03 | 1,56E-03 | 0,00E+00 | 6,43E-05 | 1,17E-02 | 0,00E+00 | -3,29E-02 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5,60E-03  | 1,72E-03 | 1,84E-03 | 7,77E-03 | 1,71E-03 | 0,00E+00 | 8,03E-05 | 1,46E-02 | 0,00E+00 | -4,09E-02 |
| POCP                                    | kg NMVOC eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1,95E-03  | 2,44E-04 | 5,09E-04 | 6,70E-04 | 3,58E-04 | 0,00E+00 | 6,45E-06 | 1,65E-03 | 0,00E+00 | -6,28E-03 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2,04E-03  | 2,72E-04 | 5,09E-04 | 8,92E-04 | 3,86E-04 | 0,00E+00 | 8,57E-06 | 2,19E-03 | 0,00E+00 | -8,28E-03 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2,14E-03  | 3,00E-04 | 5,09E-04 | 1,11E-03 | 4,15E-04 | 0,00E+00 | 1,07E-05 | 2,72E-03 | 0,00E+00 | -1,03E-02 |
| ADP-minerals&metals*                    | kg Sb eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2,03E-06  | 1,10E-08 | 1,70E-08 | 2,60E-08 | 7,80E-06 | 0,00E+00 | 3,55E-10 | 2,54E-08 | 0,00E+00 | -2,68E-07 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2,64E-06  | 1,27E-08 | 1,70E-08 | 3,47E-08 | 7,80E-06 | 0,00E+00 | 4,73E-10 | 3,37E-08 | 0,00E+00 | -3,56E-07 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3,24E-06  | 1,43E-08 | 1,70E-08 | 4,33E-08 | 7,80E-06 | 0,00E+00 | 5,90E-10 | 4,19E-08 | 0,00E+00 | -4,44E-07 |
| ADP-fossil*                             | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,78E+01  | 1,94E+00 | 5,30E+00 | 4,57E+00 | 1,66E+00 | 0,00E+00 | 6,24E-02 | 2,81E+00 | 0,00E+00 | -2,47E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2,01E+01  | 2,22E+00 | 5,29E+00 | 6,08E+00 | 1,70E+00 | 0,00E+00 | 8,30E-02 | 3,73E+00 | 0,00E+00 | -3,24E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2,25E+01  | 2,51E+00 | 5,29E+00 | 7,59E+00 | 1,75E+00 | 0,00E+00 | 1,04E-01 | 4,64E+00 | 0,00E+00 | -4,02E+01 |
| WDP                                     | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2,36E-01  | 1,33E-03 | 1,33E-01 | 3,14E-03 | 8,05E-02 | 0,00E+00 | 4,29E-05 | 1,34E+00 | 0,00E+00 | -2,36E-01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2,36E-01  | 1,53E-03 | 1,32E-01 | 4,18E-03 | 1,04E-01 | 0,00E+00 | 5,70E-05 | 1,78E+00 | 0,00E+00 | -3,01E-01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2,36E-01  | 1,72E-03 | 1,32E-01 | 5,21E-03 | 1,26E-01 | 0,00E+00 | 7,12E-05 | 2,22E+00 | 0,00E+00 | -3,68E-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.

**Potential environmental impact – additional mandatory indicator – Untreated floors, 15 mm, 20 mm and 25 mm in descending order.**

| Results per functional or declared unit |                        |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                   | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| GWP-GHG*                                | kg CO <sub>2</sub> eq. | 2,75E+00 | 2,01E-01 | 2,83E-01 | 4,69E-01 | 3,18E-01 | 0,00E+00 | 6,43E-03 | 2,17E+00 | 0,00E+00 | -4,19E-01 |
|                                         |                        | 3,47E+00 | 2,31E-01 | 2,83E-01 | 6,24E-01 | 3,59E-01 | 0,00E+00 | 8,55E-03 | 2,88E+00 | 0,00E+00 | -5,46E-01 |
|                                         |                        | 3,18E+00 | 2,61E-01 | 2,83E-01 | 7,79E-01 | 4,01E-01 | 0,00E+00 | 1,07E-02 | 3,52E+00 | 0,00E+00 | -6,74E-01 |

\*The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013

**Use of resources – Floors with wood stain and ultra protect treatment, 15 mm, 20 mm and 25 mm in descending order.**

| Results per functional or declared unit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| PERE                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6,92E+01 | 1,05E-01 | 4,38E-01 | 2,48E-01 | 2,74E-01 | 0,00E+00 | 3,39E-03 | 5,26E-01 | 0,00E+00 | -6,37E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8,59E+01 | 1,21E-01 | 4,38E-01 | 3,31E-01 | 2,83E-01 | 0,00E+00 | 4,51E-03 | 6,97E-01 | 0,00E+00 | -8,43E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,03E+02 | 1,37E-01 | 4,38E-01 | 4,12E-01 | 2,92E-01 | 0,00E+00 | 5,63E-03 | 8,67E-01 | 0,00E+00 | -1,05E+02 |
| PERM                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,08E+02 | 0,00E+00 | 1,40E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,43E+02 | 0,00E+00 | 1,40E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,79E+02 | 0,00E+00 | 1,40E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PERT                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,78E+02 | 1,05E-01 | 4,38E-01 | 2,48E-01 | 2,74E-01 | 0,00E+00 | 3,39E-03 | 5,26E-01 | 0,00E+00 | -6,37E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,30E+02 | 1,21E-01 | 4,38E-01 | 3,30E-01 | 2,83E-01 | 0,00E+00 | 4,51E-03 | 6,97E-01 | 0,00E+00 | -8,44E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,82E+02 | 1,37E-01 | 4,38E-01 | 4,12E-01 | 2,92E-01 | 0,00E+00 | 5,63E-03 | 8,67E-01 | 0,00E+00 | -1,05E+02 |
| PENRE                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2,26E+01 | 1,94E+00 | 5,30E+00 | 4,59E+00 | 1,66E+00 | 0,00E+00 | 6,26E-02 | 2,81E+00 | 0,00E+00 | -2,47E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,65E+01 | 2,23E+00 | 5,30E+00 | 6,10E+00 | 1,71E+00 | 0,00E+00 | 8,33E-02 | 3,73E+00 | 0,00E+00 | -3,24E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3,04E+01 | 2,52E+00 | 5,30E+00 | 7,61E+00 | 1,76E+00 | 0,00E+00 | 1,04E-01 | 4,64E+00 | 0,00E+00 | -4,02E+01 |
| PENRM                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 1,97E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 1,97E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 1,97E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PENRT                                   | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2,26E+01 | 1,94E+00 | 5,30E+00 | 4,59E+00 | 1,66E+00 | 0,00E+00 | 6,26E-02 | 2,81E+00 | 0,00E+00 | -2,47E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,65E+01 | 2,23E+00 | 5,30E+00 | 6,10E+00 | 1,71E+00 | 0,00E+00 | 8,33E-02 | 3,73E+00 | 0,00E+00 | -3,24E+01 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3,04E+01 | 2,52E+00 | 5,30E+00 | 7,61E+00 | 1,76E+00 | 0,00E+00 | 1,04E-01 | 4,64E+00 | 0,00E+00 | -4,02E+01 |
| SM                                      | kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| RSF                                     | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| NRSF                                    | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| FW                                      | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2,67E-02 | 1,23E-04 | 3,41E-03 | 2,89E-04 | 2,13E-03 | 0,00E+00 | 3,95E-06 | 3,16E-02 | 0,00E+00 | -3,45E-02 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,56E-02 | 1,41E-04 | 3,41E-03 | 3,85E-04 | 2,68E-03 | 0,00E+00 | 5,26E-06 | 4,19E-02 | 0,00E+00 | -4,55E-02 |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,45E-02 | 1,59E-04 | 3,41E-03 | 4,81E-04 | 3,22E-03 | 0,00E+00 | 6,56E-06 | 5,22E-02 | 0,00E+00 | -5,65E-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 production – Floors with wood stain and ultra protect treatment, 15 mm, 20 mm and 25 mm in descending order.**

| Results per functional or declared unit |      |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                               | Unit | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
| Hazardous waste disposed                | kg   | 1,31E-03 | 8,45E-08 | 1,02E-08 | 1,99E-07 | 2,18E-09 | 0,00E+00 | 2,72E-09 | 2,19E-09 | 0,00E+00 | -3,25E-08 |
|                                         |      | 1,74E-03 | 9,71E-08 | 1,02E-08 | 2,65E-07 | 2,26E-09 | 0,00E+00 | 3,62E-09 | 2,82E-09 | 0,00E+00 | -4,30E-08 |
|                                         |      | 2,17E-03 | 1,10E-07 | 1,02E-08 | 3,31E-07 | 2,34E-09 | 0,00E+00 | 4,52E-09 | 3,46E-09 | 0,00E+00 | -5,36E-08 |
| Non-hazardous waste disposed            | kg   | 5,24E-02 | 2,89E-04 | 1,48E-02 | 6,84E-04 | 8,20E-03 | 0,00E+00 | 9,33E-06 | 9,90E-02 | 0,00E+00 | -1,06E-01 |
|                                         |      | 5,37E-02 | 3,33E-04 | 1,48E-02 | 9,09E-04 | 9,80E-03 | 0,00E+00 | 1,24E-05 | 1,29E-01 | 0,00E+00 | -1,41E-01 |
|                                         |      | 5,51E-02 | 3,76E-04 | 1,48E-02 | 1,13E-03 | 1,14E-02 | 0,00E+00 | 1,55E-05 | 1,60E-01 | 0,00E+00 | -1,75E-01 |
| Radioactive waste disposed              | kg   | 1,77E-04 | 3,37E-06 | 6,49E-06 | 7,95E-06 | 5,25E-05 | 0,00E+00 | 1,09E-07 | 1,62E-04 | 0,00E+00 | -8,63E-03 |
|                                         |      | 1,77E-04 | 3,87E-06 | 6,49E-06 | 1,06E-05 | 5,53E-05 | 0,00E+00 | 1,44E-07 | 2,14E-04 | 0,00E+00 | -1,15E-02 |
|                                         |      | 1,77E-04 | 4,37E-06 | 6,49E-06 | 1,32E-05 | 5,80E-05 | 0,00E+00 | 1,80E-07 | 2,66E-04 | 0,00E+00 | -1,43E-02 |

**Output flows – Floors with wood stain and ultra protect treatment, 15 mm, 20 mm and 25 mm in descending order.**

| Results per functional or declared unit |      |          |          |          |          |          |          |          |          |          |          |
|-----------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Indicator                               | Unit | A1       | A2       | A3       | A4       | A5       | 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 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Material for recycling                  | kg   | 4,75E-02 | 0,00E+00 | 2,24E-03 | 0,00E+00 | 3,58E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 6,31E-02 | 0,00E+00 | 2,24E-03 | 0,00E+00 | 3,58E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 7,87E-02 | 0,00E+00 | 2,24E-03 | 0,00E+00 | 3,58E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Materials for energy recovery           | kg   | 3,17E-02 | 0,00E+00 | 1,16E-01 | 0,00E+00 | 8,42E-03 | 0,00E+00 | 0,00E+00 | 7,10E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 4,21E-02 | 0,00E+00 | 1,16E-01 | 0,00E+00 | 8,42E-03 | 0,00E+00 | 0,00E+00 | 9,45E+00 | 0,00E+00 | 0,00E+00 |
|                                         |      | 5,25E-02 | 0,00E+00 | 1,16E-01 | 0,00E+00 | 8,42E-03 | 0,00E+00 | 0,00E+00 | 1,18E+01 | 0,00E+00 | 0,00E+00 |
| Exported energy, electricity            | MJ   | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 9,96E-01 | 0,00E+00 | 0,00E+00 | 1,86E+01 | 0,00E+00 | 0,00E+00 |
|                                         |      | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,32E+00 | 0,00E+00 | 0,00E+00 | 2,47E+01 | 0,00E+00 | 0,00E+00 |
|                                         |      | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,64E+00 | 0,00E+00 | 0,00E+00 | 3,08E+01 | 0,00E+00 | 0,00E+00 |
| Exported energy, thermal                | MJ   | 4,08E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,79E+00 | 0,00E+00 | 0,00E+00 | 3,34E+01 | 0,00E+00 | 0,00E+00 |
|                                         |      | 5,42E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 2,37E+00 | 0,00E+00 | 0,00E+00 | 4,44E+01 | 0,00E+00 | 0,00E+00 |
|                                         |      | 6,76E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 2,95E+00 | 0,00E+00 | 0,00E+00 | 5,54E+01 | 0,00E+00 | 0,00E+00 |

**Information on biogenic carbon content**

| Results per functional or declared unit                  |      |          |
|----------------------------------------------------------|------|----------|
| BIOGENIC CARBON CONTENT                                  | Unit | QUANTITY |
| Biogenic carbon content in product, 14 - 15 mm thickness | kg C | 3,12     |
| Biogenic carbon content in product, 20 mm thickness      | kg C | 4,15     |
| Biogenic carbon content in product, 25 mm thickness      | kg C | 5,17     |
| Biogenic carbon content in packaging                     | kg C | 0,002    |

*Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO<sub>2</sub>.*

## References

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