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| Owner of the declaration: | Unifloor B.V. |
| Publisher: | Kiwa-Ecobility Experts |
| Programme operator: | Kiwa-Ecobility Experts |
| Declaration number: | EPD-Unifloor-257-EN |
| Issue date: | 11.11.2022 |
| Valid to: | 11.11.2027 |



Jumpax® Classic

This Environmental Product Declaration (EPD) is based on the life cycle assessment of the Jumpax® Classic flooring system from Unifloor B.V. .

1. General information

Unifloor B.V.

Programme operator:

Kiwa-Ecobility Experts
Voltastr. 5
13355 Berlin
Germany

Declaration number:

EPD-Unifloor-257-EN

Issue date:

11.11.2022

Scope:

This EPD is based on the life cycle assessment of the Jumpax® Classic flooring system from Unifloor B.V. .

The declaration holder is liable for the underlying information and evidence. Kiwa-Ecobility Experts is not liable for manufacturer information, life cycle assessment data and evidence.



Frank Huppertz
(Head of Kiwa-Ecobility Experts)



Prof. Dr Frank Heimbecher
(Chairman of the Independent Expert Committee of Kiwa-Ecobility Experts)

Jumpax® Classic

Owner of the declaration:

Unifloor B.V.
Arnsbergstraat 4
7418 EZ Deventer
Netherlands

Declared unit:

1 m² Floor system

Valid until:

11.11.2027

Product category rules:

PCR A - Calculation rules for the LCA and requirements for the background report

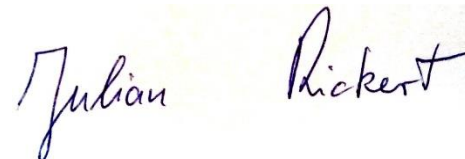
PCR B - Resilient, textile and laminate floor coverings - Environmental product declarations - Product category rules; EN 16810:2017

Verification:

The CEN standard EN 15804:2012+A2:2019 serves as the core PCR.

Independent verification of the declaration and data according to EN ISO 14025:2011-10.

internal external



Julian Rickert
(Third party verifier)

2. Product

2.1 Product description & application

Jumpax® Classic is a two-layer underlay system with interactive bonding and a levelling layer laminated underneath for easy levelling of sharp unevenness up to 3 mm. A quick and perfect subfloor for sophisticated design coverings or even hard-wearing linoleum qualities.

Jumpax® Classic is the most powerful underlay in the field of impact sound reducing and balancing systems. By installing Jumpax® Classic, any subfloor is transformed into an absolutely even subfloor in no time at all, on which design flooring, CV coverings, linoleum, cork and carpet can be glued directly. This can save an enormous amount of time and money and complicated and time-consuming activities for levelling a subfloor are a thing of the past.

Jumpax® Classic has been tested by recognised institutes for impact sound reduction and shows an improvement of 25 dB ΔL_w in the system with a design floor. The basis is the European standard EN-ISO 140-8 / 717-2 in combination with floor coverings on concrete floors with screed.

2.2 Technical data

In Table 1 the technical specifications for Jumpax® Classic are listed.

Table 1: Technical data for Jumpax® Classic

| Parameter | Value | Unit |
|---|--|---------------------|
| Strength | 10 / ± 0,2 | mm |
| Format | 600 x 1200 / ± 1,5 | mm |
| Weight per m ² | 5,5 | kg |
| Weight per package | 16 | kg |
| Bulk density | 550 | kg/m ³ |
| Residual moisture | 4-10 | % |
| Swelling in thickness after 24 hours: Water absorption max | < 40 | % |
| Fire class RTF (according to standard EN13501:2007): System check | D _{fl-s1} | - |
| The system with design flooring | B _{fl-s1} | - |
| The system with linoleum | C _{fl-s1} | - |
| Thermal conductivity λ value | 64,52 | W.m/K |
| Thermal resistance R value (according to ISO 8302:1991 and EN 12667:2001) | 0,155 | m ² .K/W |
| Flexural strength (according to standard EN 310) | > 40 | kg/cm ² |
| Load test (according to the DIN-EN-1991-1-1 standard) | E1, E2 and E3 | Class |
| Airborne sound insulation, base R _w = 53 dB (according to ISO 717-1-2013 standard) System check | R _w = 55 (+ 2 dB reduction) | dB |
| Impact sound insulation (IS) on screed floor (according to ISO 10140-3 2010 standard): in combination with linoleum 2 mm | 21 | dB ΔL _w |
| in combination with design floor 2 mm | 22 | dB ΔL _w |
| in combination with click design floor 4 mm | 21 | dB ΔL _w |
| in combination with CV 3 mm | 22 | dB ΔL _w |
| Impact sound insulation (IS) on wooden ceiling (according to ISO 10140-3 2010 standard basis 64 dB): System check | 5 | dB ΔL _n |
| VOC Class | A | - |
| Formaldehyde content | E-1 | - |
| FSC certified | FSC C154437 | - |
| Ü sign | DIBt Z-158.10-47 | - |

2.3 Production

Jumpax® Classic is manufactured by Unifloor 50% at Hephata in Mönchengladbach in Germany (Künkelstraße 43, 41063 Mönchengladbach) and 50% at De Bolder in Texel in the Netherlands (Reijer Keijserstraat 8, 1791 AX Den Burg - Texel). Here, the individual layers (MDF etc.) are joined together with glue and then packed for transport to the place of use (see Figure 1).

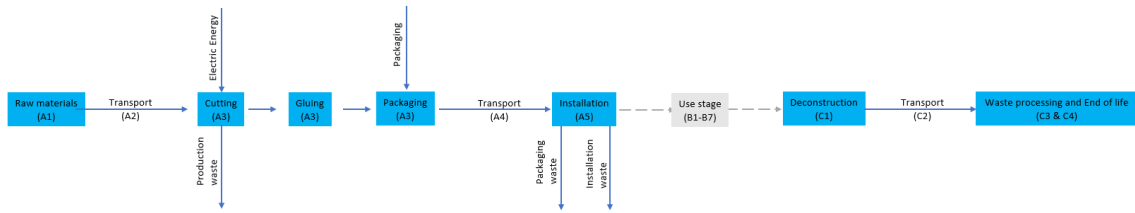


Figure 1: Process flow diagram

2.4 Raw materials

Jumpax® Classic is made of high-quality MDF materials and consists of a bottom panel (3 mm) with polystyrene and aluminium film (3 mm) and a top panel (4 mm). Both boards are already provided with a special interactive adhesive.

The product does not contain any substances from the candidate list of substances of very high concern for authorisation (SVHC).

2.5 Packaging

The packaging consists of a pallet for transport and a protective film that is removed from the adhesive surfaces during installation.

2.6 Reference service life (RSL)

Since the use phase is not considered, no reference useful life is given.

2.7 Other information

Further information on the product can be found on the manufacturer's website (www.unifloor.info).

3. LCA: Calculation rules

3.1 Declared unit

The declared unit for floor systems is according to "PCR B - Resilient, textile and laminate floor coverings - Environmental product declarations - Product category rules; EN 16810:2017" 1 m².

Table 2: Declared unit

| Parameter | Value | Unit |
|---------------------------|-------|--------------------|
| Declared unit | 1 | m ² |
| Conversion factor to 1 kg | 0,182 | m ² /kg |

3.2 System boundary

The EPD was prepared in accordance with DIN EN 15804 and takes into account the manufacturing phase, the construction phase and the disposal phase as well as the credits and loads outside the system boundaries. This corresponds to the modules A1 to A5, A4 and A5 as well as C1 to C4 and D. The type of EPD is therefore "cradle to grave with options".

In this life cycle assessment according to ISO 14025, the following phases of the product life cycle were considered:

- A1: Raw material extraction and processing
- A2: Transport to the manufacturer
- A3: Production
- A4: Transport to the customer
- A5: Installation
- C1: Deconstruction
- C2: Transport
- C3: Waste treatment
- C4: Landfill
- D: Reuse, recovery and recycling potential

For the declared life phases, all inputs (raw materials, intermediate products, energy and auxiliary materials) as well as the waste produced were considered.

3.3 Assumptions and estimates

For data protection reasons, the assumptions made and data used are only explained in the background report accompanying this EPD.

3.4 Period under review

All product- and process-specific data were collected for the operating year 2021 and are thus up-to-date.



3.5 Cut-off criteria

Potential environmental impacts were assigned to the material flows based on the Ecoinvent database version 3.6. All flows contributing to more than 1 percent of the total mass, energy or environmental impacts of the system were considered in the LCA. It can be assumed that the neglected processes would have contributed less than 5 percent to the impact categories considered.

Other operating resources and the corresponding waste were not considered part of the product system and accordingly not included in the balancing.

3.6 Data quality

To ensure the comparability of the results, only consistent background data from the Ecoinvent database version 3.6 (2019) was used in the LCA (e.g. data sets on energy, transports, auxiliary and operating materials). The database is regularly checked and thus complies with the requirements of EN 15804 (background data not older than 10 years). Almost all consistent data sets contained in the Ecoinvent database version 3.6 are documented and can be viewed in the online documentation.

The raw material data were converted into reference flows (input per declared unit).

The general rule was followed that specific data from specific production processes or average data derived from specific processes must have priority in the calculation of an LCA. Data for processes over which the manufacturer has no influence were assigned generic data.

The LCA calculation was carried out using Nibe's LCA & EPD tool R< THINK.

3.7 Allocation

In addition to Jumpax® Classic, other products are also manufactured at the Hephata production facility in Mönchengladbach. The assumptions made regarding the allocation in packaging and energy are only explained in detail in the background report to this EPD for data protection reasons.

Specific information on allocations within the background data can be found in the documentation of the Ecoinvent database version 3.6 datasets.

3.8 Comparability

In principle, a comparison or assessment of the environmental impact of different products is only possible if they have been produced in accordance with EN 15804. For the assessment of comparability, the following aspects in particular must be taken into account: PCR used, functional or declared unit, geographical reference, definition of the system boundary, declared modules, data selection (primary or secondary data, background database, data quality), scenarios used for use and disposal phases and the life cycle inventory (data collection, calculation methods, allocations, validity period). PCRs and general programme instructions of different EPDs programmes may differ. Comparability must be checked. Further guidance can be found in EN 15804+A2 (5.3 Comparability of EPDs for construction products) and ISO 14025 (6.7.2 Requirements for comparability).

3.9 Data collection

ISO 14044 section 4.3.2 was taken into account in the data collection.

The objective and the scope of the study were defined in consultation with Unifloor B.V. . The data collection took place with the help of an Excel data collection template provided by Kiwa GmbH. The collected data was checked by Kiwa GmbH, for example by critically questioning the assumptions made by Unifloor B.V. . In this way, some errors (e.g. unit errors) could be corrected in cooperation with



Unifloor B.V. . Subsequently, the annual values were related to the declared unit of one square metre with the help of corresponding calculations. In addition, suitable assumptions were made for the missing information and data and estimates were made.

3.10 Calculation method

For the life cycle assessment, the calculation procedures described in ISO 14044 section 4.3.3 were applied. The evaluation is carried out on the basis of the phases lying within the system boundaries and the processes contained therein.

4. LCA: Scenarios and additional technical information

For the transport to the construction site in module A4, a scenario with a distance of 286 km and the environmental profile "market group for transport, freight, lorry, unspecified {GLO}" from Ecoinvent 3.6 was used.

No auxiliary or operating materials or energy were taken into account when installing the product in module A5, as only human muscle power is required for the installation. There are no direct emissions into the ambient air, soil or water. But there is packaging waste in the form of protective film, which is removed from the adhesive surfaces, and a Euro pallet, which was used for transport. As a conservative approach, an additional 3 % installation waste was assumed.

For disposal, a waste scenario for "MDF" based on the NMD waste scenario ID 36 from the Netherlands was adapted and used for Germany. Here, 5 % landfilling and 95 % incineration were assumed. For the distance to waste treatment, 100 km for landfilling and 150 km for incineration were used with "market group for transport, freight, lorry, unspecified {GLO}" (from Ecoinvent 3.6). The energy saving (credit) from incineration was adjusted for the German market. For the landfill loads, "99% Waste wood, untreated and 1% Waste paint {EU}| treatment of, sanitary landfill" was used and for the incineration "Waste building wood, chrome preserved {CH}| treatment of, municipal incineration".



5. LCA: Results

The following tables show the results of the life cycle assessment, more specifically for the environmental impact indicators, resource consumption, output streams and waste categories. The results presented here refer to the declared unit of 1 m² Jumpax® Classic.

The results of the environmental impact indicators ETP- fw, HTP-c, HTP-nc, SQP, ADP-f, ADP-mm and WDP must be used with caution, as the uncertainties in these results are high or there is limited experience with the indicator.

The IRP impact category mainly addresses the potential effect of low dose ionising radiation on human health in the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents and occupational exposure, nor does it consider the disposal of radioactive waste in underground facilities. Potential ionising radiation from soil, radon and some building materials is also not measured by this indicator.



| Description of the system boundary (X = module declared; MND = module not declared) | | | | | | | | | | | | | | | | |
|---|-----------|------------|----------------------------|--------------|-----------|-------------|--------|-------------|---------------|------------------------|-----------------------|-------------------|-----------|------------------|----------|---|
| Production stage | | | Construction process stage | | Use stage | | | | | | | End of life stage | | | | Benefits and loads beyond the system boundaries |
| Raw material supply | Transport | Production | Transport | Installation | Use | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | Deconstruction | Transport | Waste processing | Disposal | Reuse-, Recovery, Recycling potential |
| A1 | A2 | A3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | D |
| X | X | X | X | X | MND | MND | MND | MND | MND | MND | MND | X | X | X | X | X |

Table 3: LCA results - environmental impact indicators: 1 m² Jumpax® Classic

| Parameter | Unit | A1 | A2 | A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
|-----------|------------------------|-----------|----------|-----------|----------|----------|----------|----------|----------|----------|-----------|
| AP | mol H+-eq. | 3,07E-02 | 3,77E-03 | 2,29E-03 | 1,24E-03 | 1,18E-03 | 0,00E+00 | 6,40E-04 | 1,65E-03 | 2,55E-05 | -7,44E-03 |
| GWP-total | kg CO2-eq. | 1,01E+00 | 6,51E-01 | 8,89E-01 | 2,14E-01 | 3,20E-01 | 0,00E+00 | 1,10E-01 | 7,69E+00 | 3,09E-02 | -4,15E+00 |
| GWP-b | kg CO2-eq. | -3,55E+00 | 3,00E-04 | -3,48E-02 | 9,89E-05 | 1,27E-01 | 0,00E+00 | 5,10E-05 | 7,64E+00 | 2,76E-02 | -1,93E-01 |
| GWP-f | kg CO2-eq. | 4,55E+00 | 6,50E-01 | 9,24E-01 | 2,14E-01 | 1,92E-01 | 0,00E+00 | 1,10E-01 | 4,83E-02 | 3,30E-03 | -3,96E+00 |
| GWP-luluc | kg CO2-eq. | 6,09E-03 | 2,38E-04 | 4,41E-04 | 7,85E-05 | 2,07E-04 | 0,00E+00 | 4,04E-05 | 1,32E-05 | 1,44E-06 | -2,86E-03 |
| ETP-fw | CTUe | 1,08E+02 | 8,75E+00 | 7,95E+00 | 2,88E+00 | 3,86E+00 | 0,00E+00 | 1,48E+00 | 1,44E+00 | 6,97E-02 | -2,16E+01 |
| PM | Occurrence of diseases | 4,50E-07 | 5,85E-08 | 2,30E-08 | 1,93E-08 | 1,67E-08 | 0,00E+00 | 9,93E-09 | 1,33E-08 | 4,83E-10 | -2,63E-08 |
| EP-m | kg N-eq. | 5,17E-03 | 1,33E-03 | 4,96E-04 | 4,38E-04 | 2,42E-04 | 0,00E+00 | 2,26E-04 | 7,67E-04 | 1,64E-05 | -1,37E-03 |
| EP-fw | kg PO4-eq. | 1,99E-04 | 6,56E-06 | 2,92E-05 | 2,16E-06 | 7,43E-06 | 0,00E+00 | 1,11E-06 | 9,89E-07 | 6,13E-08 | -3,58E-04 |
| EP-t | mol N-eq. | 8,51E-02 | 1,47E-02 | 6,59E-03 | 4,83E-03 | 3,55E-03 | 0,00E+00 | 2,49E-03 | 8,80E-03 | 9,43E-05 | -2,02E-02 |
| HTP-c | CTUh | 4,40E-08 | 2,84E-10 | 2,12E-09 | 9,34E-11 | 2,01E-09 | 0,00E+00 | 4,81E-11 | 2,04E-08 | 1,94E-12 | -4,88E-10 |
| HTP-nc | CTUh | 8,71E-08 | 9,57E-09 | 6,30E-09 | 3,15E-09 | 3,31E-09 | 0,00E+00 | 1,62E-09 | 5,02E-09 | 7,44E-11 | -1,77E-08 |
| IRP | kBq U235-eq. | 2,16E-01 | 4,11E-02 | 2,03E-02 | 1,35E-02 | 8,68E-03 | 0,00E+00 | 6,97E-03 | 1,28E-03 | 2,72E-04 | -1,12E-01 |
| SQP | - | 3,56E+02 | 8,51E+00 | 2,57E+01 | 2,80E+00 | 1,18E+01 | 0,00E+00 | 1,44E+00 | 1,70E-01 | 1,64E-01 | -6,29E+00 |
| ODP | kg CFC11-eq. | 5,65E-07 | 1,44E-07 | 1,06E-07 | 4,73E-08 | 2,57E-08 | 0,00E+00 | 2,44E-08 | 6,20E-09 | 9,09E-10 | -3,19E-07 |
| POCP | kg NMVOC eq. | 2,17E-02 | 4,18E-03 | 1,84E-03 | 1,38E-03 | 9,28E-04 | 0,00E+00 | 7,10E-04 | 2,30E-03 | 3,37E-05 | -4,34E-03 |
| ADP-f | MJ | 8,01E+01 | 9,81E+00 | 1,44E+01 | 3,23E+00 | 3,25E+00 | 0,00E+00 | 1,66E+00 | 4,92E-01 | 6,95E-02 | -5,80E+01 |
| ADP-mm | kg Sb-eq. | 7,69E-05 | 1,65E-05 | 5,12E-06 | 5,43E-06 | 3,06E-06 | 0,00E+00 | 2,80E-06 | 3,02E-07 | 3,15E-08 | -7,32E-06 |
| WDP | m3 World eq. withdrawn | 4,97E+00 | 3,51E-02 | 1,83E-01 | 1,16E-02 | 1,57E-01 | 0,00E+00 | 5,96E-03 | 1,73E-02 | 2,98E-03 | -8,70E-02 |

AP = Acidification potential, accumulated exceedance; GWP-total = Global warming potential, total; GWP-b = Global warming potential, biogenic; GWP-f = Global warming potential, fossil; GWP-luluc = Global warming potential, land use and land use change; ETP-fw = Ecotoxicity potential, freshwater; PM = Particulate matter emissions disease



potential; EP-m = Eutrophication potential, fraction of nutrients reaching marine saltwater end compartment; EP-fw = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-t = Eutrophication potential, accumulated potential; HTP-c = Human toxicity potential, cancer effects; HTP-nc = Human toxicity potential, non-cancer effects; IRP = Ionizing radiation potential, human health; SQP = Soil quality potential; ODP = Depletion potential of the stratospheric ozone layer; POCP = Formation potential of tropospheric ozone; ADP-f = Abiotic depletion potential for fossil resources; ADP-mm = Abiotic depletion potential for non-fossil resources, minerals and metals; WDP = Water deprivation potential, deprivation-weighted water consumption



Table 4: LCA results - resource consumption, output streams & waste categories: 1 m² Jumpax® Classic

| Parameter | Unit | A1 | A2 | A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
|-----------|------|-----------|----------|-----------|----------|-----------|----------|----------|----------|----------|-----------|
| PERE | MJ | -6,82E+00 | 1,23E-01 | 2,32E+00 | 4,04E-02 | -1,26E-01 | 0,00E+00 | 2,08E-02 | 2,29E-02 | 1,49E-03 | -4,06E+00 |
| PERM | MJ | 7,42E+01 | 0,00E+00 | 2,23E+00 | 0,00E+00 | 2,29E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | -2,45E-03 |
| PERT | MJ | 6,74E+01 | 1,23E-01 | 4,55E+00 | 4,04E-02 | 2,17E+00 | 0,00E+00 | 2,08E-02 | 2,27E-02 | 1,22E-03 | -4,07E+00 |
| PENRE | MJ | 8,47E+01 | 1,04E+01 | 1,56E+01 | 3,43E+00 | 3,46E+00 | 0,00E+00 | 1,77E+00 | 7,52E-01 | 7,50E-02 | -6,32E+01 |
| PENRM | MJ | 2,03E+00 | 0,00E+00 | 1,10E-01 | 0,00E+00 | 6,42E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | -6,78E-05 |
| PENRT | MJ | 8,67E+01 | 1,04E+01 | 1,57E+01 | 3,43E+00 | 3,51E+00 | 0,00E+00 | 1,77E+00 | 5,29E-01 | 7,39E-02 | -6,32E+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 | m3 | 1,33E-01 | 1,19E-03 | 6,32E-03 | 3,93E-04 | 4,30E-03 | 0,00E+00 | 2,03E-04 | 2,58E-03 | 7,26E-05 | -1,38E-02 |
| HWD | kg | 8,29E-05 | 2,49E-05 | 1,85E-05 | 8,18E-06 | 4,05E-06 | 0,00E+00 | 4,22E-06 | 3,15E-06 | 1,07E-07 | -4,26E-05 |
| NHWD | kg | 6,96E-01 | 6,22E-01 | 7,26E-02 | 2,05E-01 | 5,51E-02 | 0,00E+00 | 1,06E-01 | 2,77E-01 | 2,78E-01 | -1,34E-01 |
| RWD | kg | 2,30E-04 | 6,44E-05 | 2,42E-05 | 2,12E-05 | 1,01E-05 | 0,00E+00 | 1,09E-05 | 1,51E-06 | 4,13E-07 | -1,46E-04 |
| CRU | 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 |
| MFR | kg | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,78E-04 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| MER | kg | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 5,27E+00 | 0,00E+00 | 0,00E+00 |
| EET | MJ | 0,00E+00 | 0,00E+00 | -1,07E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | -3,66E+01 |
| EEE | MJ | 0,00E+00 | 0,00E+00 | -6,74E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 4,34E+01 | 0,00E+00 | -2,31E+01 |

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water; HWD = Hazardous waste disposed;



NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EET = Exported energy, thermic; EEE = Exported energy, electric

6. LCA: Interpretation

For easier understanding, the results are presented graphically in order to be able to see correlations and connections between the data more clearly.

The following figure shows the shares of the different product life phases in the environmental impacts.

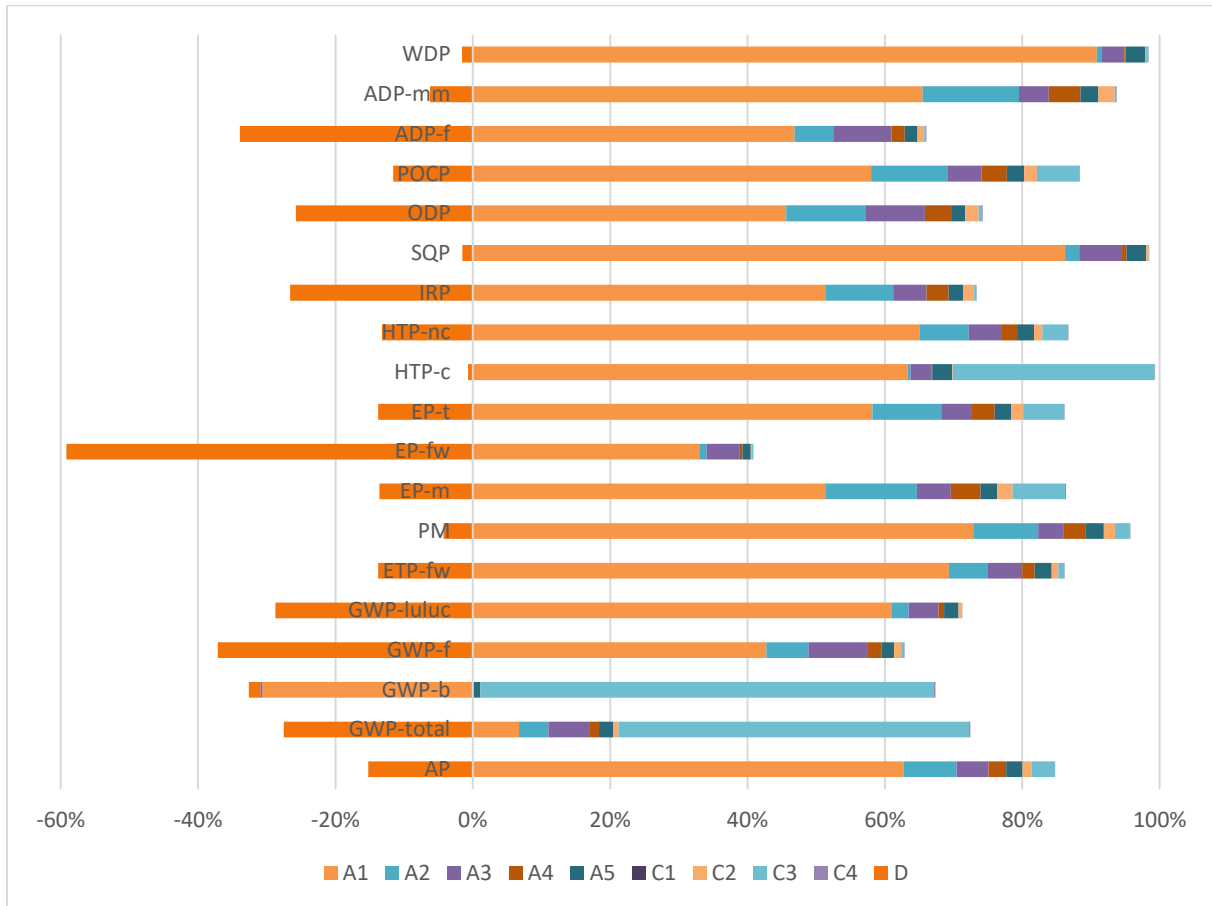


Figure 2: Shares of the product life phases in the environmental impacts for Jumpax® Classic

As can be seen in the graph, raw material provision A1 dominates in the production phase in almost all environmental impacts. Furthermore, it can be seen from the negative values that the credits outside the system boundaries in module D predominate.

For the "Eutrophication potential, fraction of nutrients reaching freshwater end compartment", the credits from Module D (negative value) outweigh the sum of the loads from the other modules (positive values).



7. References

| | |
|-----------------|---|
| Ecoinvent, 2019 | Ecoinvent database version 3.6, 2019 |
| EN 15804: | EN 15804:2012+A2:2019: Sustainability of construction works - Environmental product declarations - Basic rules for the product category construction products |
| ISO 14025: | DIN EN ISO 14025:2011-10: Environmental labels and declarations - Type III environmental declarations - Principles and procedures |
| ISO 14040: | DIN EN ISO 14040:2006-10, Environmental management - Life cycle assessment - Principles and framework; EN ISO 14040:2006 |
| ISO 14044: | DIN EN ISO 14044:2006-10, Environmental management - Life cycle assessment - Requirements and guidelines; EN ISO 14040:2006 |
| PCR A: | General product category rules for building products from the EPD programme of Ecobility Experts GmbH: Calculation rules for the LCA and requirements for the background report |
| PCR B: | Resilient, textile and laminate floor coverings - Environmental product declarations - Product category rules; EN 16810:2017 |
| R< THiNK, 2022 | R< THiNK; Online LCA & EPD tool from Nibe; 2022 |



| | | | |
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