



Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

BIMBO





The Norwegian EPD Foundation

Owner of the declaration:

Blå Station AB

Product: BIMBO

DIIVIDO

Declared unit:

1 pcs

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as

NPCR 026:2022 Part B for Furniture

Program operator:

The Norwegian EPD Foundation

Declaration number:

NEPD-7983-7648-EN

Registration number:

NEPD-7983-7648-EN

Issue date: 04.11.2024

Valid to: 04.11.2029

EPD software:

LCAno EPD generator ID: 602471



General information

Product

ВІМВО

Program operator:

The Norwegian EPD Foundation
Post Box 5250 Majorstuen, 0303 Oslo, Norway

Phone: +47 977 22 020 web: www.epd-norge.no

Declaration number:

NEPD-7983-7648-EN

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR NPCR 026:2022 Part B for Furniture

Statement of liability:

The owner of the declaration shall be liable for the underlying information and evidence. EPD Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Declared unit:

1 pcs BIMBO

Declared unit (cradle to gate) with option:

A1-A3,A4,A5,B2,B3,B4,C1,C2,C3,C4,D

Functional unit:

Bimbo is a stackable stool made of compression moulded wood.

General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-Norway's guidelines for verification and approval requiring that tools are i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD-Norway, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools

Verification of EPD tool:

Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPDNorway's procedures and guidelines for verification and approval of EPD tools.

Third party verifier:

Elisabet Amat, GREENIZE projects

(no signature required)

Owner of the declaration:

Blå Station AB

Contact person: William Lövdahl Phone: 044-30 00 348 e-mail: william@blastation.se

Manufacturer:

Blå Station AB

Place of production:

Blå Station AB

. Sweden

Management system:

ISO 9001:2015 - ISO 14001:2015

Organisation no:

556272-1091

Issue date:

04.11.2024

Valid to:

04.11.2029

Year of study:

2023

Comparability:

EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.

Development and verification of EPD:

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD Norway.

Developer of EPD: William Lövdahl

Reviewer of company-specific input data and EPD: Isaac Svensson

Approved:

Håkon Hauan

Managing Director of EPD-Norway



Product

Product description:

A stool is a tool! Bimbo is a stackable stool made of compression moulded wood. A cut out hole as a handle makes the stool easy to move around. Bimbo can be used almost anywhere one needs a temporary little place to sit or something to balance a foot on when one can't quite reach and, of course, as a movable small table.

https://www.blastation.com/products/product-families/bimbo/bimbo#&tab=1

Product specification

Compression moulded, layer-glued lacquered wood. Finish in clear-lacquered Ash, Oak or Walnut. Stain colours (from a selection of cc.4) are applied to Ash veneer.

| Materials | kg | % | Recycled share in material (kg) | Recycled share in material (%) |
|----------------------|------|--------|------------------------------------|---|
| Paint, solvent-based | 0,10 | 3,85 | 0,00 | 0,00 |
| Wood - Plywood | 2,50 | 96,15 | 0,00 | 0,00 |
| Total | 2,60 | 100,00 | 0,00 | |

| Packaging | kg | % | Recycled share in material (kg) | Recycled share in material (%) |
|--------------------------|------|--------|------------------------------------|---|
| Packaging - Cardboard | 0,08 | 5,30 | 0,00 | 0,00 |
| Packaging - Wood | 1,25 | 80,26 | 0,00 | 0,00 |
| Recycled cardboard | 0,23 | 14,45 | 0,23 | 100,00 |
| Total incl. packaging | 4,16 | 100,00 | 0,23 | |

Technical data:

Bimbo

Overall height: 45 cm Seat width: 39 cm Overall width: 42 cm Seat depth: 22 cm Overall depth: 30 cm

The product is tested and approved according to the following standard:

EN 16139:2013 Furniture - Strength, durability and safety - Requirements for non-domestic seating. Test level 1

Market:

European market

Reference service life, product

The lifetime of the product depends on the application

Reference service life, building

LCA: Calculation rules

Declared unit:

1 pcs BIMBO

Cut-off criteria:

All major raw materials and all the essential energy is included. The production processes for raw materials and energy flows with very small amounts (less than 1%) are not included. These cut-off criteria do not apply for hazardous materials and substances.

Allocation:

The allocation is made in accordance with the provisions of EN 15804. Incoming energy and water and waste production in-house is allocated equally among all products through mass allocation. Effects of primary production of recycled materials is allocated to the main product in which the material was used. The recycling process and transportation of the material is allocated to this analysis.

Data quality:

Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other LCA databases. The data quality of the raw materials in A1 is presented in the table below.

BLĂ STATION

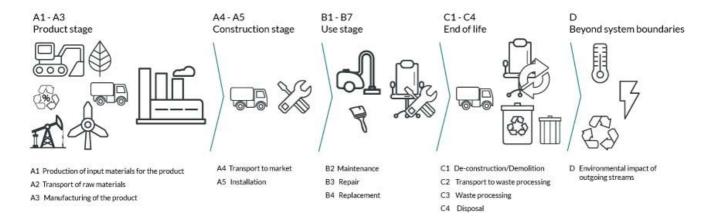
| Materials | Source | Data quality | Year |
|-----------------------|------------------------|--------------|------|
| Packaging - Cardboard | Modified ecoinvent 3.6 | Database | 2019 |
| Packaging - Wood | Modified ecoinvent 3.6 | Database | 2019 |
| Paint, solvent-based | ecoinvent 3.6 | Database | 2019 |
| Recycled cardboard | Modified ecoinvent 3.6 | Database | 2019 |
| Wood - Plywood | modified ecoinvent 3.6 | Database | 2019 |



System boundaries (X=included, MND=module not declared, MNR=module not relevant)

| | Product sta | ge | | uction on stage | | | | Use stage | | | | End of life stage | | | Beyond the system boundaries | |
|------------------|-------------|---------------|-----------|--------------------|-----|-------------|--------|-------------|---------------|------------------------------|--------------------------|-----------------------------------|-----------|---------------------|------------------------------|--|
| Raw materials | Transport | Manufacturing | Transport | Assembly | Use | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De- construction demolition | Transport | Waste processing | Disposal | Reuse-Recovery- Recycling-potential |
| A1 | A2 | A3 | A4 | A5 | B1 | B2 | В3 | B4 | B5 | В6 | В7 | C1 | C2 | C3 | C4 | D |
| X | X | X | X | X | MND | Χ | Χ | X | MND | MND | MND | X | Χ | X | X | X |

System boundary:



Additional technical information:

Maintenance and service guides:

For maintenance and service guides, please visit our website at: https://www.blastation.com/downloads/care-instructions

Bimbo is 100% recyclable. Ingoing materials and components should be separated and recycled in accordance with local laws and regulations.

Blå Station offers solutions for renovations and recycling based on customer's preferences, product, condition, quantity and region.

Contact Blå Station for more information.

LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

Absence of data for user and end of life stage:

B1: User stage is fully dependent on application and environment of the product.

B3-B5: Reparation, replacement and refurbishment of the product is dependent on non-domestic usage. Reparation, replacement, and refurbishment are possible, please contact Blå Station for further information for possible solutions.

B6-B7: Bimbo does not require energy nor water for operational usage.

C1: No special tools are needed for De-construction or demolition of ingoing materials

| Transport from production place to user (A4) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
|--|--|---------------|-------------------------|-------|------------------------|
| Truck, 16-32 tonnes, EURO 6 (km) | 36,7 % | 500 | 0,043 | l/tkm | 21,50 |
| Assembly (A5) | Unit | Value | | | |
| Naste, packaging, pallet, EUR wooden pallet, reusable, average treatment (kg) | kg | 1,25 | | | |
| Naste, packaging, cardboard, 100 % recycled, to verage treatment (kg) | kg | 0,23 | | | |
| Naste, packaging, corrugated board box, 0 % ecycled, to average treatment (kg) | kg | 0,08 | | | |
| Maintenance (B2) | Unit | Value | | | |
| Vater, tap water (kg) | kg/DU | 0,50 | | | |
| Transport to waste processing (C2) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
| Truck, 16-32 tonnes, EURO 6 (km) | 36,7 % | 30 | 0,043 | l/tkm | 1,29 |
| Waste processing (C3) | Unit | Value | | | |
| Vaste treatment per kg Wood, incineration with ly ash extraction (kg) | kg | 2,50 | | | |
| Disposal (C4) | Unit | Value | | | |
| andfilling of ashes from incineration of Wood, process per kg ashes and residues (kg) | kg | 0,03 | | | |
| Benefits and loads beyond the system boundaries (D) | Unit | Value | | | |
| Substitution of thermal energy, district heating (MJ) | МЈ | 26,30 | | | |
| Substitution of electricity (MJ) | MJ | 1,74 | | | |



LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

| Environme | ental impact | | | | | | | | |
|-----------|---|--|--|--------------------------------------|---------------------------------|--|---|--|--|
| | Indicator | | Unit | | A1-A3 | A4 | A5 | B2 | В3 |
| | GWP-total | | kg CO ₂ -e | eq | -1,69E-01 | 3,40E-01 | 2,42E+00 | 1,73E-04 | 0 |
| | GWP-fossil | | kg CO ₂ -eq | | 8,56E+00 | 3,40E-01 | 6,66E-03 | 1,72E-04 | 0 |
| | GWP-biogenic | | kg CO ₂ -e | eq | -8,92E+00 | 1,41E-04 | 2,42E+00 | 1,08E-06 | 0 |
| | GWP-luluc | | kg CO ₂ -e | eq | 1,89E-01 | 1,21E-04 | 2,08E-06 | 2,79E-07 | 0 |
| ٨ | ODP | | kg CFC11 - | -eq | 9,96E-07 | 7,70E-08 | 1,32E-09 | 1,50E-11 | 0 |
| | АР | | mol H+ - | eq | 6,15E-02 | 9,76E-04 | 3,71E-05 | 1,00E-06 | 0 |
| * | EP-FreshWater | | kg P -eq | I | 7,70E-04 | 2,71E-06 | 6,10E-08 | 1,37E-08 | 0 |
| * | EP-Marine | | kg N -ec | 1 | 1,12E-02 | 1,93E-04 | 1,36E-05 | 1,59E-07 | 0 |
| | EP-Terrestial | | mol N -e | q | 1,33E-01 | 2,16E-03 | 1,46E-04 | 1,85E-06 | 0 |
| | POCP | | kg NMVOC | -eq | 3,69E-02 | 8,28E-04 | 4,02E-05 | 5,81E-07 | 0 |
| | ADP-minerals&metals ¹ | | kg Sb-ed | 7 | 1,08E-04 | 9,38E-06 | 1,48E-07 | 4,80E-09 | 0 |
| B | ADP-fossil ¹ | | МЈ | | 1,62E+02 | 5,14E+00 | 8,94E-02 | 2,93E-03 | 0 |
| <u>%</u> | WDP ¹ | | m ³ | | 1,90E+03 | 4,97E+00 | 1,19E-01 | 5,22E-02 | 0 |
| | Indicator | | | | | | | | |
| | Indicator | Ur | nit | B4 | C1 | C2 | C3 | C4 | D |
| | Indicator GWP-total | Ur kg CC | | B4 0 | C1 0 | C2 2,04E-02 | C3 4,20E+00 | C4 1,24E-03 | D -1,58E-01 |
| | | | O ₂ -eq | | | | | | |
| _ | GWP-total | kg CC | O ₂ -eq O ₂ -eq | 0 | 0 | 2,04E-02 | 4,20E+00 | 1,24E-03 | -1,58E-01 |
| | GWP-total GWP-fossil | kg CC | O ₂ -eq O ₂ -eq O ₂ -eq | 0 | 0 | 2,04E-02 2,04E-02 | 4,20E+00 3,06E-02 | 1,24E-03 1,24E-03 | -1,58E-01 -1,52E-01 |
| | GWP-total GWP-fossil GWP-biogenic | kg CC kg CC kg CC | O ₂ -eq | 0 0 | 0 0 | 2,04E-02 2,04E-02 8,44E-06 | 4,20E+00 3,06E-02 4,17E+00 | 1,24E-03 1,24E-03 6,70E-07 | -1,58E-01 -1,52E-01 -3,15E-04 |
| | GWP-total GWP-fossil GWP-biogenic GWP-luluc | kg CC kg CC kg CC | D ₂ -eq | 0 0 0 | 0 0 0 0 | 2,04E-02 2,04E-02 8,44E-06 7,26E-06 | 4,20E+00 3,06E-02 4,17E+00 4,67E-06 | 1,24E-03 1,24E-03 6,70E-07 2,00E-07 | -1,58E-01 -1,52E-01 -3,15E-04 -5,25E-03 |
| | GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP | kg CC kg CC kg CC kg CC | D ₂ -eq L11 -eq L1+ -eq | 0 0 0 0 | 0 0 0 0 | 2,04E-02 2,04E-02 8,44E-06 7,26E-06 4,62E-09 | 4,20E+00 3,06E-02 4,17E+00 4,67E-06 2,55E-09 | 1,24E-03 1,24E-03 6,70E-07 2,00E-07 1,46E-10 | -1,58E-01 -1,52E-01 -3,15E-04 -5,25E-03 -1,11E-02 |
| | GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP | kg CC kg CC kg CC kg CC mol H | D ₂ -eq D ₂ -eq D ₂ -eq D ₂ -eq D ₁ -eq D ₂ -eq D ₃ -eq | 0 0 0 0 0 | 0 0 0 0 0 | 2,04E-02 2,04E-02 8,44E-06 7,26E-06 4,62E-09 5,86E-05 | 4,20E+00 3,06E-02 4,17E+00 4,67E-06 2,55E-09 3,92E-04 | 1,24E-03 1,24E-03 6,70E-07 2,00E-07 1,46E-10 4,59E-06 | -1,58E-01 -1,52E-01 -3,15E-04 -5,25E-03 -1,11E-02 -1,26E-03 |
| | GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater | kg CC kg CC kg CC kg CFC mol H | D ₂ -eq D ₂ -eq D ₂ -eq D ₂ -eq D ₁ -eq D ₂ -eq D ₃ -eq D ₄ -eq D ₇ -eq U -eq | 0 0 0 0 0 0 | 0 0 0 0 0 0 | 2,04E-02 2,04E-02 8,44E-06 7,26E-06 4,62E-09 5,86E-05 1,63E-07 | 4,20E+00 3,06E-02 4,17E+00 4,67E-06 2,55E-09 3,92E-04 5,12E-07 | 1,24E-03 1,24E-03 6,70E-07 2,00E-07 1,46E-10 4,59E-06 1,64E-08 | -1,58E-01 -1,52E-01 -3,15E-04 -5,25E-03 -1,11E-02 -1,26E-03 -1,36E-05 |
| | GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine | kg CC kg CC kg CC kg CFC mol H kg P | D ₂ -eq D ₂ -eq D ₂ -eq D ₂ -eq D ₁ -eq D ₂ -eq D ₃ -eq D ₄ -eq D ₇ -eq D ₇ -eq D ₈ -eq D ₈ -eq | 0 0 0 0 0 0 | 0 0 0 0 0 0 | 2,04E-02 2,04E-02 8,44E-06 7,26E-06 4,62E-09 5,86E-05 1,63E-07 1,16E-05 | 4,20E+00 3,06E-02 4,17E+00 4,67E-06 2,55E-09 3,92E-04 5,12E-07 1,88E-04 | 1,24E-03 1,24E-03 6,70E-07 2,00E-07 1,46E-10 4,59E-06 1,64E-08 1,46E-06 | -1,58E-01 -1,52E-01 -3,15E-04 -5,25E-03 -1,11E-02 -1,26E-03 -1,36E-05 -4,11E-04 |
| | GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine EP-Terrestial | kg CC kg CC kg CC kg CFC mol H kg P kg N | D ₂ -eq D ₃ -eq D ₄ -eq D ₇ -eq D ₇ -eq D ₈ -eq D ₈ -eq D ₈ -eq | 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 | 2,04E-02 2,04E-02 8,44E-06 7,26E-06 4,62E-09 5,86E-05 1,63E-07 1,16E-05 1,30E-04 | 4,20E+00 3,06E-02 4,17E+00 4,67E-06 2,55E-09 3,92E-04 5,12E-07 1,88E-04 1,99E-03 | 1,24E-03 1,24E-03 6,70E-07 2,00E-07 1,46E-10 4,59E-06 1,64E-08 1,46E-06 1,65E-05 | -1,58E-01 -1,52E-01 -3,15E-04 -5,25E-03 -1,11E-02 -1,26E-03 -1,36E-05 -4,11E-04 -4,44E-03 |
| | GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine EP-Terrestial POCP | kg CC kg CC kg CC kg CFC mol H kg P kg N | D ₂ -eq D ₃ -eq D ₄ -eq D ₇ -eq D ₇ -eq D ₈ -eq D ₈ -eq D ₉ -eq D ₉ -eq | 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 | 2,04E-02 2,04E-02 8,44E-06 7,26E-06 4,62E-09 5,86E-05 1,63E-07 1,16E-05 1,30E-04 4,97E-05 | 4,20E+00 3,06E-02 4,17E+00 4,67E-06 2,55E-09 3,92E-04 5,12E-07 1,88E-04 1,99E-03 4,89E-04 | 1,24E-03 1,24E-03 6,70E-07 2,00E-07 1,46E-10 4,59E-06 1,64E-08 1,46E-06 1,65E-05 4,58E-06 | -1,58E-01 -1,52E-01 -3,15E-04 -5,25E-03 -1,11E-02 -1,26E-03 -1,36E-05 -4,11E-04 -4,44E-03 -1,22E-03 |

GWP-total = Global Warming Potential total; 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

Remarks to environmental impacts

[&]quot;Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"

^{*}INA Indicator Not Assessed

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

| Additional e | nvironmental impa | ct indicators | | | | | | |
|------------------------|---------------------|-------------------|----|----------|----------|----------|-----------|-----------|
| | Indicator | Unit | | A1-A3 | A4 | A5 | B2 | В3 |
| | PM | Disease incidence | | 1,25E-06 | 2,08E-08 | 5,12E-10 | 9,00E-12 | 0 |
| | IRP ² | kgBq U235 -eq | | 1,16E+00 | 2,25E-02 | 3,69E-04 | 2,03E-05 | 0 |
| | ETP-fw ¹ | CTUe | | 2,27E+02 | 3,81E+00 | 1,15E-01 | 3,17E-03 | 0 |
| 44. | HTP-c ¹ | CTUh | | 2,04E-08 | 0,00E+00 | 6,00E-12 | 1,00E-12 | 0 |
| 46 B | HTP-nc ¹ | CTUh | | 1,47E-07 | 4,16E-09 | 2,36E-10 | 1,10E-11 | 0 |
| | SQP ¹ | dimensionless | | 9,01E+02 | 3,59E+00 | 5,78E-02 | 8, 19E-04 | 0 |
| I | ndicator | Unit | B4 | C1 | C2 | C3 | C4 | D |
| | PM | Disease incidence | 0 | 0 | 1,25E-09 | 4,09E-09 | 6,00E-11 | -7,61E-08 |
| | IRP ² | kgBq U235 -eq | 0 | 0 | 1,35E-03 | 4,74E-04 | 5,67E-05 | -1,39E-02 |
| | ETP-fw ¹ | CTUe | 0 | 0 | 2,28E-01 | 4,86E-01 | 2,04E-02 | -1,19E+01 |
| 40.0 *** <u>*</u> 2 | HTP-c ¹ | CTUh | 0 | 0 | 0,00E+00 | 8,80E-11 | 1,00E-12 | -2,17E-10 |
| 8° <u>B</u> | HTP-nc ¹ | CTUh | 0 | 0 | 2,50E-10 | 4,31E-09 | 3,70E-11 | -1,14E-08 |
| | SQP ¹ | dimensionless | 0 | 0 | 2,16E-01 | 3,62E-02 | 3,85E-02 | -1,46E+01 |

PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Soil Quality (dimensionless)

[&]quot;Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"

^{*}INA Indicator Not Assessed

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

^{2.} This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

| Resource use | | | | | | | | | |
|------------------------------------|--------------------------------|----------------------------|----|-----------------------|-----------------------|--|--|--|--|
| | Indicator | | Ur | nit | A1-A3 | A4 | A5 | B2 | В3 |
| | PERE | | М | 1) | 1,69E+02 | 7,35E-02 | 1,55E-03 | 3,98E-04 | 0 |
| | PERM | | M | IJ | 7,56E+01 | 0,00E+00 | -2,00E+01 | 0,00E+00 | 0 |
| Ţ, | PERT | | M | 1J | 2,44E+02 | 7,35E-02 | -2,00E+01 | 3,98E-04 | 0 |
| | PENRE | | M | 1J | 1,63E+02 | 5,14E+00 | 8,94E-02 | 2,93E-03 | 0 |
| Åg | PENRM | | M | 1J | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0 |
| IA | PENRT | | M | 1J | 1,63E+02 | 5,14E+00 | 8,94E-02 | 2,93E-03 | 0 |
| | SM | | k | g | 2,25E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0 |
| 2 | RSF | | M | 1J | 1,47E+00 | 2,63E-03 | 4,98E-05 | 3,19E-05 | 0 |
| | NRSF | | MJ | | 3,65E-01 | 9,41E-03 | 2,92E-04 | 3,15E-05 | 0 |
| & | FW | | m | 1 ³ | 1,60E-01 | 5,49E-04 | 4,72E-05 | 5,03E-04 | 0 |
| ı | ndicator | Unit | t | B4 | C1 | C2 | C3 | C4 | D |
| | | | | | | | | C-F | _ |
| | PERE | MJ | | 0 | 0 | 4,41E-03 | 8,06E-03 | 6,48E-04 | -1,35E+01 |
| 4 | PERE | WI | | 0 | 0 | 4,41E-03 0,00E+00 | | | |
| | | | | | | | 8,06E-03 | 6,48E-04 | -1,35E+01 |
| | PERM | МЈ | | 0 | 0 | 0,00E+00 | 8,06E-03 -3,50E+01 | 6,48E-04 0,00E+00 | -1,35E+01 0,00E+00 |
| 4 | PERM PERT | МЛ | | 0 | 0 | 0,00E+00 4,41E-03 | 8,06E-03 -3,50E+01 -3,50E+01 | 6,48E-04 0,00E+00 6,48E-04 | -1,35E+01 0,00E+00 -1,35E+01 |
| F. | PERM PERT PENRE | M1 M1 | | 0 0 | 0 0 0 | 0,00E+00 4,41E-03 3,08E-01 | 8,06E-03 -3,50E+01 -3,50E+01 2,44E-01 | 6,48E-04 0,00E+00 6,48E-04 1,22E-02 | -1,35E+01 0,00E+00 -1,35E+01 -2,18E+00 |
| S F. E | PERM PERT PENRE PENRM | мл мл | | 0 0 0 | 0 0 0 | 0,00E+00 4,41E-03 3,08E-01 0,00E+00 | 8,06E-03 -3,50E+01 -3,50E+01 2,44E-01 0,00E+00 | 6,48E-04 0,00E+00 6,48E-04 1,22E-02 0,00E+00 | -1,35E+01 0,00E+00 -1,35E+01 -2,18E+00 0,00E+00 |
| \$ \$ \$ \$ 1 1 | PERM PERT PENRE PENRM PENRT | MI MI MI MI | | 0 0 0 0 | 0 0 0 0 | 0,00E+00 4,41E-03 3,08E-01 0,00E+00 3,08E-01 | 8,06E-03 -3,50E+01 -3,50E+01 2,44E-01 0,00E+00 2,44E-01 | 6,48E-04 0,00E+00 6,48E-04 1,22E-02 0,00E+00 1,22E-02 | -1,35E+01 0,00E+00 -1,35E+01 -2,18E+00 0,00E+00 -2,18E+00 |
| | PERM PERT PENRE PENRM PENRT SM | MJ MJ MJ MJ kg | | 0 0 0 0 0 | 0 0 0 0 0 | 0,00E+00 4,41E-03 3,08E-01 0,00E+00 3,08E-01 0,00E+00 | 8,06E-03 -3,50E+01 -3,50E+01 2,44E-01 0,00E+00 2,44E-01 0,00E+00 | 6,48E-04 0,00E+00 6,48E-04 1,22E-02 0,00E+00 1,22E-02 0,00E+00 | -1,35E+01 0,00E+00 -1,35E+01 -2,18E+00 0,00E+00 -2,18E+00 0,00E+00 |

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 resources used as raw materials; PENRM = Use of non renewable primary energy resources; SM = Use of secondary materials; RESF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

| End of life - Waste | | | | | | | | | |
|---------------------|-----------|--|------|----|----------|----------|----------|----------|-----------|
| | Indicator | | Unit | | A1-A3 | A4 | A5 | B2 | В3 |
| | HWD | | k | g | 4,74E-02 | 2,65E-04 | 0,00E+00 | 5,54E-07 | 0 |
| Ū | NHWD | | k | 9 | 1,68E+00 | 2,50E-01 | 3,70E-01 | 3,56E-05 | 0 |
| <u>.</u> | RWD | | kg | | 1,02E-03 | 3,50E-05 | 0,00E+00 | 1,72E-08 | 0 |
| In | dicator | | Unit | B4 | C1 | C2 | C3 | C4 | D |
| | HWD | | kg | 0 | 0 | 1,59E-05 | 0,00E+00 | 2,09E-02 | -1,02E-04 |
| Ū | NHWD | | kg | 0 | 0 | 1,50E-02 | 0,00E+00 | 7,88E-03 | -5,15E-02 |
| 3 | RWD | | kg | 0 | 0 | 2,10E-06 | 0,00E+00 | 6,02E-08 | -1,14E-05 |

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

| End of life - Output flow | | | | | | | | |
|---------------------------|--------|------|------|----------|----------|----------|----------|----------|
| Ind | icator | Ur | Unit | | A4 | A5 | B2 | В3 |
| ® | CRU | k | 9 | 0,00E+00 | 0,00E+00 | 1,19E+00 | 0,00E+00 | 0 |
| &▷ | MFR | kį | 9 | 5,13E-01 | 0,00E+00 | 2,86E-01 | 0,00E+00 | 0 |
| DF | MER | kį | 9 | 8,82E-01 | 0,00E+00 | 6,20E-02 | 0,00E+00 | 0 |
| 50 | EEE | M | MJ | | 0,00E+00 | 6,07E-02 | 0,00E+00 | 0 |
| DB | EET | M | МЈ | | 0,00E+00 | 9,18E-01 | 0,00E+00 | 0 |
| Indicato | or | Unit | B4 | C1 | C2 | C3 | C4 | D |
| Ø▷ | CRU | kg | 0 | 0 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| \$> | MFR | kg | 0 | 0 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| DF | MER | kg | 0 | 0 | 0,00E+00 | 2,50E+00 | 0,00E+00 | 0,00E+00 |
| 50 | EEE | МЈ | 0 | 0 | 0,00E+00 | 1,74E+00 | 0,00E+00 | 0,00E+00 |
| D@ | EET | MJ | 0 | 0 | 0,00E+00 | 2,63E+01 | 0,00E+00 | 0,00E+00 |

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

| Biogenic Carbon Content | | | | | | | | |
|-------------------------|---------------------|--|--|--|--|--|--|--|
| Unit | At the factory gate | | | | | | | |
| kg C | 1,81E+00 | | | | | | | |
| kg C | 6,59E-01 | | | | | | | |
| | kg C | | | | | | | |

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO2

Additional requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

| Electricity mix | Source | Amount | Unit |
|-------------------------------------|---------------|--------|--------------|
| Electricity, European average (kWh) | ecoinvent 3.6 | 428,03 | g CO2-eg/kWh |

Dangerous substances

The product contains no substances given by the REACH Candidate list.

Indoor environment

State of California AIR RESOURCES BOARD EXECUTIVE ORDER N-22-124

Additional Environmental Information

Key Environmental Indicators

| Key environmental indicators | Unit | A1-A3 | A4 | A1-C4 | A1-D |
|------------------------------|------------------------|--------|------|--------|--------|
| GWPtotal | kg CO ₂ -eq | -0,17 | 0,34 | 6,81 | 6,66 |
| Total energy consumption | MJ | 333,31 | 5,22 | 339,22 | 322,77 |
| Amount of recycled materials | % | 5,41 | | | |

| Additional environmental impact indicators required in NPCR Part A for construction products | | | | | | | |
|--|------------------------|------------------------|-------|----------|----------|----------|-----------|
| Indicator | Unit | | A1-A3 | A4 | A5 | B2 | В3 |
| GWPIOBC | kg CO ₂ -eq | kg CO ₂ -eq | | 3,40E-01 | 6,66E-03 | 1,73E-04 | 0 |
| Indicator | Unit | B4 | C1 | C2 | C3 | C4 | D |
| GWPIOBC | kg CO ₂ -eq | 0 | 0 | 2,04E-02 | 3,09E-02 | 1,28E-03 | -1,56E-01 |

GWP-IOBC: Global warming potential calculated according to the principle of instantaneous oxidation. In order to increase the transparency of biogenic carbon contribution to climate impact, the indicator GWP-IOBC is required as it declares climate impacts calculated according to the principle of instantaneous oxidation. GWP-IOBC is also referred to as GWP-GHG in context to Swedish public procurement legislation.

Bibliography

ISO 14025:2010 Environmental labels and declarations - Type III environmental declarations - Principles and procedures.

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

EN 15804:2012 + A2:2019 Environmental product declaration - Core rules for the product category of construction products.

ISO 21930:2017 Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products.

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Iversen et al., (2021) eEPD v2021.09 Background information for EPD generator tool system verification, LCA.no Report number: 07.21 Ruud et al., (2023) EPD generator for NPCR026 Part B for Furniture - Background information for EPD generator application and LCA data, LCA.no report number 01.23

NPCR Part A: Construction products and services. Ver. 2.0. March 2021, EPD-Norge.

NPCR 026 Part B for Furniture. Ver. 2.0 March 2022, EPD-Norge.

Scope of certificate:

Certificate type: Single Chain of Custody

FSC License Code:

FSC-C107368

Möbelfakta:

Möbelfakta certificate.

Quality:

EN 16139:2013 Furniture - Strength, durability and safety - Requirements for non-domestic seating. Test level 1

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