

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

ARC



BLÅ STATION

The Norwegian EPD Foundation

Owner of the declaration:

Blå Station AB

Product:

ARC

Declared unit:

1 pcs

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

Program operator:

The Norwegian EPD Foundation

Declaration number:

NEPD-8004-7673-EN

Registration number:

NEPD-8004-7673-EN

Issue date: 08.11.2024

Valid to: 08.11.2029

EPD software:

LCAno EPD generator ID: 655681

General information

Product

ARC

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-8004-7673-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 ARC

Declared unit (cradle to gate) with option:

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

Functional unit:

ARC is a sound-absorbent which can be mounted according to your own preferences. ARC is mounted on the wall with a magnetic fitting, so you can easily move around ARC's when you feel like it, maybe to change a striped wall to variegated or from light to dark.

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 EPD Norway'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:

08.11.2024

Valid to:

08.11.2029

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:

Stone Designs brings its third sound absorber to Blå Station. Arc is inspired by the arcades of the Colosseum in Rome and can be used in many vertical and horizontal configurations. The panels deflect irritating sound as the reliefs absorb soundwaves.

<https://www.blastation.com/products/product-families/ginkgo/ginkgo>

Product specification

Materials:

50% recycled PET-fibers.

50% Low melt fibers with 75% recycled fibers.

This particular Environmental Product Declaration (EPD) is conducted for one specific ARC panel.

For technical data on variants and options of sound absorbents, please visit our website at: <https://www.blastation.com>

| Materials | kg | % | Recycled share in material (kg) | Recycled share in material (%) |
|--------------------------|------|-------|---------------------------------|--------------------------------|
| Textile - Polyester (PE) | 1,20 | 34,45 | 1,05 | 87,50 |
| Metal - Steel | 0,12 | 3,33 | 0,00 | 0,00 |
| Total | 1,32 | 37,78 | 1,05 | |

| Packaging | kg | % | Recycled share in material (kg) | Recycled share in material (%) |
|-----------------------|------|-------|---------------------------------|--------------------------------|
| Packaging - Wood | 1,67 | 47,86 | 0,00 | 0,00 |
| Recycled cardboard | 0,50 | 14,36 | 0,50 | 100,00 |
| Total incl. packaging | 3,48 | 62,22 | 1,55 | |

Technical data:

ARC sound absorbent:

Length: 90 cm

Width: 45 cm

Depth: 7 cm

For technical data on variants of sound absorbents, please visit our homepage at: <https://www.blastation.com>

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 ARC

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:

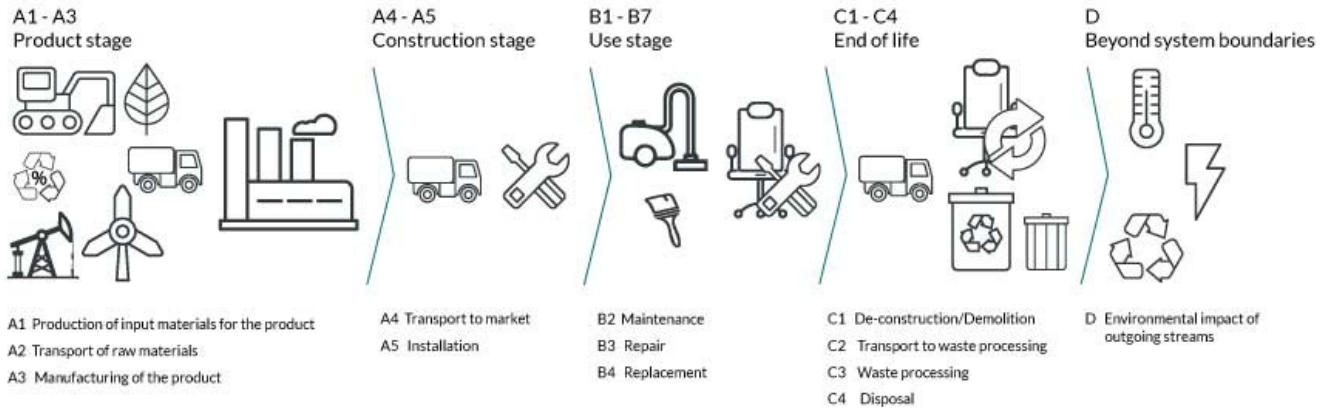
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other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

| Materials | Source | Data quality | Year |
|--------------------------|------------------------|---------------------|-------------|
| Metal - Steel | ecoinvent 3.6 | Database | 2019 |
| Packaging - Wood | Modified ecoinvent 3.6 | Database | 2019 |
| Recycled cardboard | Modified ecoinvent 3.6 | Database | 2019 |
| Textile - Polyester (PE) | ecoinvent 3.6 | Database | 2019 |
| Textile - Polyester (PE) | Modified ecoinvent 3.6 | Database | 2019 |

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

| Product stage | | | Construction installation 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 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | D |
| X | X | X | X | X | MND | X | X | X | MND | MND | MND | X | X | 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>

For ARC wall planner, please visit our website at: <https://www.blastation.com/planners>

ARC 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: ARC does not require energy nor water for operational usage.














C1: No special tools are needed for de-construction.

| 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 | | | | |
| Waste, packaging, cardboard, 100 % recycled, to average treatment (kg) | kg | 0,50 | | | |
| Waste, packaging, pallet, EUR wooden pallet, reusable, average treatment (kg) | kg | 1,67 | | | |
| Maintenance (B2) | | | | | |
| Unit | Value | | | | |
| Water, 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 | | | | |
| Waste, materials to recycling (kg) | kg | 0,04 | | | |
| Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg) | kg | 0,12 | | | |
| Waste treatment per kg Textile, incineration with fly ash extraction (kg) | kg | 1,05 | | | |
| Waste treatment per kg Textile, incineration with fly ash extraction (kg) | kg | 0,15 | | | |
| Disposal (C4) | | | | | |
| Unit | Value | | | | |
| Landfilling of ashes and residues from incineration of Scrap steel (kg) | kg | 0,08 | | | |
| Landfilling of ashes from incineration of Textile, soiled, process per kg ashes and residues (kg) | kg | 0,05 | | | |
| Landfilling of ashes from incineration of Textile, soiled, process per kg ashes and residues (kg) | kg | 0,01 | | | |
| Benefits and loads beyond the system boundaries (D) | | | | | |
| Unit | Value | | | | |
| Substitution of primary steel with net scrap (kg) | kg | 0,01 | | | |
| Substitution of electricity (MJ) | MJ | 0,95 | | | |
| Substitution of thermal energy, district heating (MJ) | MJ | 14,39 | | | |
| Substitution of electricity (MJ) | MJ | 0,14 | | | |
| Substitution of thermal energy, district heating (MJ) | MJ | 2,06 | | | |

LCA: Results

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

| Environmental impact | | | | | | | |
|--|------------------------|-----------|----------|----------|----------|----|--|
| Indicator | Unit | A1-A3 | A4 | A5 | B2 | B3 | |
|  GWP-total | kg CO ₂ -eq | 2,82E+00 | 2,85E-01 | 3,39E+00 | 1,73E-04 | 0 | |
|  GWP-fossil | kg CO ₂ -eq | 5,89E+00 | 2,84E-01 | 1,03E-02 | 1,72E-04 | 0 | |
|  GWP-biogenic | kg CO ₂ -eq | -3,09E+00 | 1,18E-04 | 3,38E+00 | 1,08E-06 | 0 | |
|  GWP-luluc | kg CO ₂ -eq | 1,87E-02 | 1,01E-04 | 3,25E-06 | 2,79E-07 | 0 | |
|  ODP | kg CFC11 -eq | 5,45E-07 | 6,44E-08 | 2,07E-09 | 1,50E-11 | 0 | |
|  AP | mol H+ -eq | 3,33E-02 | 8,18E-04 | 5,63E-05 | 1,00E-06 | 0 | |
|  EP-FreshWater | kg P -eq | 3,36E-04 | 2,27E-06 | 9,33E-08 | 1,37E-08 | 0 | |
|  EP-Marine | kg N -eq | 7,16E-03 | 1,62E-04 | 2,04E-05 | 1,59E-07 | 0 | |
|  EP-Terrestrial | mol N -eq | 8,82E-02 | 1,81E-03 | 2,20E-04 | 1,85E-06 | 0 | |
|  POCP | kg NMVOC -eq | 2,79E-02 | 6,93E-04 | 6,07E-05 | 5,81E-07 | 0 | |
|  ADP-minerals&metals ¹ | kg Sb-eq | 8,08E-04 | 7,86E-06 | 2,33E-07 | 4,80E-09 | 0 | |
|  ADP-fossil ¹ | MJ | 8,42E+01 | 4,30E+00 | 1,40E-01 | 2,93E-03 | 0 | |
|  WDP ¹ | m ³ | 5,27E+02 | 4,16E+00 | 1,84E-01 | 5,22E-02 | 0 | |

| Indicator | Unit | B4 | C1 | C2 | C3 | C4 | D |
|--|------------------------|----|----|----------|-----------|----------|-----------|
|  GWP-total | kg CO ₂ -eq | 0 | 0 | 1,71E-02 | 1,77E+00 | 1,01E-03 | -1,13E-01 |
|  GWP-fossil | kg CO ₂ -eq | 0 | 0 | 1,71E-02 | 1,52E-02 | 1,00E-03 | -1,09E-01 |
|  GWP-biogenic | kg CO ₂ -eq | 0 | 0 | 7,06E-06 | 1,76E+00 | 8,05E-06 | -2,05E-04 |
|  GWP-luluc | kg CO ₂ -eq | 0 | 0 | 6,07E-06 | 2,40E-06 | 2,81E-07 | -3,29E-03 |
|  ODP | kg CFC11 -eq | 0 | 0 | 3,87E-09 | 1,28E-09 | 2,80E-10 | -6,95E-03 |
|  AP | mol H+ -eq | 0 | 0 | 4,91E-05 | 1,92E-04 | 6,57E-06 | -8,56E-04 |
|  EP-FreshWater | kg P -eq | 0 | 0 | 1,36E-07 | 2,64E-07 | 1,06E-08 | -9,34E-06 |
|  EP-Marine | kg N -eq | 0 | 0 | 9,71E-06 | 9,16E-05 | 2,32E-06 | -2,71E-04 |
|  EP-Terrestrial | mol N -eq | 0 | 0 | 1,09E-04 | 9,74E-04 | 2,58E-05 | -2,93E-03 |
|  POCP | kg NMVOC -eq | 0 | 0 | 4,16E-05 | 2,40E-04 | 7,38E-06 | -8,37E-04 |
|  ADP-minerals&metals ¹ | kg Sb-eq | 0 | 0 | 4,71E-07 | 6,31E-08 | 1,56E-08 | -1,19E-06 |
|  ADP-fossil ¹ | MJ | 0 | 0 | 2,58E-01 | 1,23E-01 | 2,09E-02 | -1,48E+00 |
|  WDP ¹ | m ³ | 0 | 0 | 2,50E-01 | -5,99E-01 | 5,28E-02 | -1,63E+01 |







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







"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

Remarks to environmental impacts

| Additional environmental impact indicators | | | | | | | |
|---|-------------------|----------|----------|----------|----------|----|--|
| Indicator | Unit | A1-A3 | A4 | A5 | B2 | B3 | |
|  PM | Disease incidence | 3,35E-07 | 1,74E-08 | 7,85E-10 | 9,00E-12 | 0 | |
|  IRP ² | kgBq U235 -eq | 3,50E-01 | 1,88E-02 | 5,80E-04 | 2,03E-05 | 0 | |
|  ETP-fw ¹ | CTUe | 2,02E+02 | 3,19E+00 | 1,81E-01 | 3,17E-03 | 0 | |
|  HTP-c ¹ | CTUh | 7,14E-09 | 0,00E+00 | 8,00E-12 | 1,00E-12 | 0 | |
|  HTP-nc ¹ | CTUh | 9,56E-08 | 3,48E-09 | 3,50E-10 | 1,10E-11 | 0 | |
|  SQP ¹ | dimensionless | 1,05E+02 | 3,01E+00 | 9,07E-02 | 8,19E-04 | 0 | |

| Indicator | Unit | B4 | C1 | C2 | C3 | C4 | D |
|---|-------------------|----|----|----------|----------|----------|-----------|
|  PM | Disease incidence | 0 | 0 | 1,05E-09 | 2,17E-09 | 1,17E-10 | -4,88E-08 |
|  IRP ² | kgBq U235 -eq | 0 | 0 | 1,13E-03 | 2,44E-04 | 8,48E-05 | -8,66E-03 |
|  ETP-fw ¹ | CTUe | 0 | 0 | 1,91E-01 | 2,78E-01 | 1,41E-02 | -8,20E+00 |
|  HTP-c ¹ | CTUh | 0 | 0 | 0,00E+00 | 4,60E-11 | 0,00E+00 | -2,04E-10 |
|  HTP-nc ¹ | CTUh | 0 | 0 | 2,09E-10 | 2,09E-09 | 1,60E-11 | -5,64E-09 |
|  SQP ¹ | dimensionless | 0 | 0 | 1,81E-01 | 1,88E-02 | 4,43E-02 | -9,13E+00 |











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)

"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 | | Unit | A1-A3 | A4 | A5 | B2 | B3 | |
|  | PERE | MJ | 2,77E+01 | 6,16E-02 | 2,40E-03 | 3,98E-04 | 0 | |
|  | PERM | MJ | 2,61E+01 | 0,00E+00 | -2,61E+01 | 0,00E+00 | 0 | |
|  | PERT | MJ | 5,38E+01 | 6,16E-02 | -2,61E+01 | 3,98E-04 | 0 | |
|  | PENRE | MJ | 5,66E+01 | 4,30E+00 | 1,40E-01 | 2,93E-03 | 0 | |
|  | PENRM | MJ | 2,77E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0 | |
|  | PENRT | MJ | 8,43E+01 | 4,30E+00 | 1,40E-01 | 2,93E-03 | 0 | |
|  | SM | kg | 1,55E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0 | |
|  | RSF | MJ | 2,23E-01 | 2,20E-03 | 7,76E-05 | 3,19E-05 | 0 | |
|  | NRSF | MJ | 4,05E-01 | 7,88E-03 | 4,35E-04 | 3,15E-05 | 0 | |
|  | FW | m ³ | 7,71E-02 | 4,60E-04 | 7,26E-05 | 5,03E-04 | 0 | |




| Indicator | | Unit | B4 | C1 | C2 | C3 | C4 | D |
|---|-------|----------------|----|----|----------|-----------|----------|-----------|
|  | PERE | MJ | 0 | 0 | 3,69E-03 | 4,15E-03 | 4,43E-04 | -8,43E+00 |
|  | PERM | MJ | 0 | 0 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|  | PERT | MJ | 0 | 0 | 3,69E-03 | 4,15E-03 | 4,43E-04 | -8,43E+00 |
|  | PENRE | MJ | 0 | 0 | 2,58E-01 | 1,42E-01 | 2,10E-02 | -1,48E+00 |
|  | PENRM | MJ | 0 | 0 | 0,00E+00 | -2,77E+01 | 0,00E+00 | 0,00E+00 |
|  | PENRT | MJ | 0 | 0 | 2,58E-01 | -2,76E+01 | 2,10E-02 | -1,48E+00 |
|  | SM | kg | 0 | 0 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|  | RSF | MJ | 0 | 0 | 1,32E-04 | 9,54E-05 | 1,16E-05 | -9,66E-04 |
|  | NRSF | MJ | 0 | 0 | 4,73E-04 | 0,00E+00 | 4,36E-04 | -4,85E-01 |
|  | FW | m ³ | 0 | 0 | 2,76E-05 | 2,50E-04 | 1,89E-05 | -1,02E-02 |

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 materials; RSF = 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 | B3 | |
|  | HWD | kg | 5,69E-02 | 2,22E-04 | 0,00E+00 | 5,54E-07 | 0 | |
|  | NHWD | kg | 2,25E+00 | 2,09E-01 | 5,83E-01 | 3,56E-05 | 0 | |
|  | RWD | kg | 2,88E-04 | 2,93E-05 | 0,00E+00 | 1,72E-08 | 0 | |






| Indicator | | Unit | B4 | C1 | C2 | C3 | C4 | D |
|---|------|------|----|----|----------|----------|----------|-----------|
|  | HWD | kg | 0 | 0 | 1,33E-05 | 0,00E+00 | 7,87E-02 | -1,37E-04 |
|  | NHWD | kg | 0 | 0 | 1,26E-02 | 0,00E+00 | 1,99E-03 | -3,80E-02 |
|  | RWD | kg | 0 | 0 | 1,76E-06 | 0,00E+00 | 1,28E-07 | -7,10E-06 |

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 | | | | | | | | |
|---|-----|------|----------|----------|----------|----------|----|--|
| Indicator | | Unit | A1-A3 | A4 | A5 | B2 | B3 | |
|  | CRU | kg | 0,00E+00 | 0,00E+00 | 1,58E+00 | 0,00E+00 | 0 | |
|  | MFR | kg | 0,00E+00 | 0,00E+00 | 4,65E-01 | 0,00E+00 | 0 | |
|  | MER | kg | 0,00E+00 | 0,00E+00 | 8,27E-02 | 0,00E+00 | 0 | |
|  | EEE | MJ | 0,00E+00 | 0,00E+00 | 8,61E-02 | 0,00E+00 | 0 | |
|  | EET | MJ | 0,00E+00 | 0,00E+00 | 1,30E+00 | 0,00E+00 | 0 | |

| Indicator | | Unit | B4 | C1 | C2 | C3 | C4 | D |
|---|-----|------|----|----|----------|----------|----------|----------|
|  | CRU | kg | 0 | 0 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|  | MFR | kg | 0 | 0 | 0,00E+00 | 3,94E-02 | 0,00E+00 | 0,00E+00 |
|  | MER | kg | 0 | 0 | 0,00E+00 | 1,32E+00 | 0,00E+00 | 0,00E+00 |
|  | EEE | MJ | 0 | 0 | 0,00E+00 | 8,38E-01 | 0,00E+00 | 0,00E+00 |
|  | EET | MJ | 0 | 0 | 0,00E+00 | 1,27E+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 | | |
|---|------|---------------------|
| Indicator | Unit | At the factory gate |
| Biogenic carbon content in product | kg C | 0,00E+00 |
| Biogenic carbon content in accompanying packaging | kg C | 9,21E-01 |

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, Nordic (kWh) | ecoinvent 3.6 | 145,70 | g CO ₂ -eq/kWh |

Dangerous substances

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

Indoor environment

Emission measurement according to Sec 01350 (Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers, version 1.1, 2010, by the California Department of Public Health) = CDPH-IAQ.

Additional Environmental Information

Key Environmental Indicators

| Key environmental indicators | Unit | A1-A3 | A4 | A1-C4 | A1-D |
|------------------------------|------------------------|-------|------|-------|-------|
| GWPtotal | kg CO ₂ -eq | 2,82 | 0,28 | 8,28 | 8,17 |
| Total energy consumption | MJ | 84,95 | 4,37 | 89,90 | 79,50 |
| Amount of recycled materials | % | 44,50 | | | |

Additional environmental impact indicators required in NPCR Part A for construction products

| Indicator | Unit | A1-A3 | A4 | A5 | B2 | B3 |
|-----------|------------------------|----------|----------|----------|----------|----|
| GWPIOBC | kg CO ₂ -eq | 6,23E+00 | 2,85E-01 | 1,03E-02 | 1,73E-04 | 0 |

| Indicator | Unit | B4 | C1 | C2 | C3 | C4 | D |
|-----------|------------------------|----|----|----------|----------|----------|-----------|
| GWPIOBC | kg CO ₂ -eq | 0 | 0 | 1,71E-02 | 1,98E+00 | 4,62E-03 | -1,19E-01 |

GWPI-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

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






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

Emission measurement according to Sec 01350 (Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers, version 1.1, 2010, by the California Department of Public Health) = CDPH-IAQ.

Fire test according to EN ISO 11925-2

Flammability tests according to UL723 on polyester felt with laminated fabric

SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

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