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# **Environmental Product Declaration**Specific/Average EPDIn accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021

**[Product name]**[Company name]

Programme
EPD Square | [www.epdsquare.com](http://www.epdsquare.com)

Programme operator
EPD Square, s.r.o.

EPD Registration number
SQ 00-0XX

Publication date
[Publication date]

Valid until
[Valid until date]

# General information

Product
[Product name]

Program operator
EPD Square, s.r.o.

Email: info@epdsquare.com

Registration number
SQ 00-0XX

Publication date
[Publication date]

Valid until date
[Valid until date]

Owner of the declaration
[Name of the EPD owner]
Contact person: [EPD owner contact person name]

Email: [EPD owner contact email]

Manufacturer
[Manufacturer name]
[Manufacturer address]
Telephone: [Manufacturer telephone number]
Email: [Manufacturer email]

Place of production
[Place of production address]

Product Category Rules (PCR)
EPD Square PCR v1.0, 2024

Declared/Functional unit
[Declared/Functional unit]

Mass per DU
[Mass per DU]

UN CPC code
[code number]

Geographical scope
[Geographical scope]

Year of study
[Year of study date]

Comparability
EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in the context of the building.

EPD author
[EPD author name]

Verification type
Independent verification of the declaration and data,
according to ISO14025:2006
Internal: [ ]
External: [ ]

Verified by
[EPD Verifier name]

**Insert Signature Verifier**

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

# System boundaries

[Text]

## Modules declared and geographical scope

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Geography |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

The table is adapted for physical products and may have to be modified when declaring service products.

# Description of Organization

[Text]

# Product information

Product name
[Product name]

Product description
[Product description text]

Product application
[Product specification text]

Geographical scope
[Geographical scope text]

## Product contents information

|  |  |  |  |
| --- | --- | --- | --- |
| Product components | Weight, kg | Post-consumer material, weight-% | Renewable material, weight-% |
| Material 1 / Chemical substance 1  |  |  |  |
| Material 2 / Chemical substance 2 |  |  |  |
| ... |  |  |  |
| TOTAL |  |  |  |
| Packaging materials | Weight, kg | Weight-% (versus the product) |
| Material 1 |  |  |
| Material 2 |  |  |
| ... |  |  |
| TOTAL |  |  |

# Manufacturing process

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# Life cycle assessment

Cut-off criteria
[Text]

Allocation, estimations, and assumptions
[Text]

Database(s) and LCA software
[Text]

# LCA Scenarios and additional technical information

## Manufacturing energy scenario

|  |  |
| --- | --- |
|  |  |
| Electricity data source and quality |  |
| Electricity CO2e / kWh |  |
| Energy data source and quality |  |
| Heating CO2e / MJ |  |

## Transportation scenario (A4)

|  |  |
| --- | --- |
|  |  |
| Vehicle type used for transport |  |
| Distance to the construction site |  |
| Capacity utilization |  |
| Capacity utilization factor |  |

## End of Life (C1, C3, C4)

|  |  |  |
| --- | --- | --- |
|  | Value | Unit |
| Collected separately |  | Kg |
| Collected as mixed construction waste |  | Kg |
| Reuse |  | Kg |
| Recycling |  | Kg |
| Energy recovery |  | Kg |
| To landfill |  | Kg |

Additional environmental information
[Text]

# LCA results

## Core environmental impact indicators – EN 15804+A2, PEF

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Indicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| GWP-total | kg CO2 eq. |  |  |  |  |  |  |  |  |
| GWP-fossil | kg CO2 eq. |  |  |  |  |  |  |  |  |
| GWP-biogenic | kg CO2 eq. |  |  |  |  |  |  |  |  |
| GWP-LULUC | kg CO2 eq. |  |  |  |  |  |  |  |  |
| ODP | kg CFC11 eq. |  |  |  |  |  |  |  |  |
| AP | mol H⁺ eq. |  |  |  |  |  |  |  |  |
| EP-freshwater | kg P eq. |  |  |  |  |  |  |  |  |
| EP-marine | kg N eq. |  |  |  |  |  |  |  |  |
| EP-terrestrial | mol N eq. |  |  |  |  |  |  |  |  |
| POCP | kg NMVOC eq. |  |  |  |  |  |  |  |  |
| ADP-M&M | kg Sb eq. |  |  |  |  |  |  |  |  |
| ADP-fossil | MJ |  |  |  |  |  |  |  |  |
| WDP | m³ |  |  |  |  |  |  |  |  |

**GWP-total**: Global Warming Potential; **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; See “additional requirements” for indicator given as PO4 eq. **EP-marine**: Eutrophication potential, fraction of nutrients reaching freshwater end compartment; **EP-terrestrial**: Eutrophication potential, Accumulated Exceedance; **POCP**: Formation potential of tropospheric ozone; **ADP-M&M**: Abiotic depletion potential for non-fossil resources (minerals and metals); **ADP-fossil**: Abiotic depletion potential for fossil resources; **WDP**: Water deprivation potential, deprivation weighted water consumption

## Additional (optional) environmental impact indicators – EN 15804+A2, PEF

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Indicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| PM | Disease incidence |  |  |  |  |  |  |  |  |
| IRP | kBq U235 eq. |  |  |  |  |  |  |  |  |
| ETP-fw | CTUe |  |  |  |  |  |  |  |  |
| HTP-c | CTUh |  |  |  |  |  |  |  |  |
| HTP-nc | CTUh |  |  |  |  |  |  |  |  |
| SQP | Dimensionless |  |  |  |  |  |  |  |  |

**PM**: Particulate matter emissions; **IRP**: Ionising radiation, human health; **ETP-fw**: Ecotoxicity (freshwater); **ETP-c**: Human toxicity, cancer effects; **HTP-nc**: Human toxicity, non-cancer effects; **SQP**: Land use related impacts / soil quality

## Use of Natural Resources

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Parameter | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| RPEE | MJ |  |  |  |  |  |  |  |  |
| RPEM | MJ |  |  |  |  |  |  |  |  |
| TPE | MJ |  |  |  |  |  |  |  |  |
| NRPE | MJ |  |  |  |  |  |  |  |  |
| NRPM | MJ |  |  |  |  |  |  |  |  |
| TRPE | MJ |  |  |  |  |  |  |  |  |
| SM | kg |  |  |  |  |  |  |  |  |
| RSF | MJ |  |  |  |  |  |  |  |  |
| NRSF | MJ |  |  |  |  |  |  |  |  |
| W | m3 |  |  |  |  |  |  |  |  |

**RPEE**: Renewable primary energy resources used as energy carrier; **RPEM**: Renewable primary energy resources used as raw materials; **TPE**: Total use of renewable primary energy resources; **NRPE**: Non-renewable primary energy resources used as energy carrier; **NRPM**: Non-renewable primary energy resources used as materials; **TRPE**: 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; **W**: Use of net fresh water

## End of life – Waste

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Parameter | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| HW | KG |  |  |  |  |  |  |  |  |
| NHW | KG |  |  |  |  |  |  |  |  |
| RW | KG |  |  |  |  |  |  |  |  |

**HW**: Hazardous waste disposed; **NHW**: Non-hazardous waste disposed; **RW**: Radioactive waste disposed

## End of life – Output flows

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Parameter | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| CR | kg |  |  |  |  |  |  |  |  |
| MR | kg |  |  |  |  |  |  |  |  |
| MER | kg |  |  |  |  |  |  |  |  |
| EEE | MJ |  |  |  |  |  |  |  |  |
| ETE | MJ |  |  |  |  |  |  |  |  |

**CR**: Components for reuse; **MR**: Materials for recycling; **MER**: Materials for energy recovery; **EEE**: Exported electric energy; **ETE**: Exported thermal energy

## Information describing biogenic carbon content at factory gate

|  |  |  |
| --- | --- | --- |
| Biogenic carbon content | Value | Unit |
| Biogenic carbon content in product |  | kg C |
| Biogenic carbon content in the accompanying packaging |  | kg C |

## Specific data (GWP-GHG) and data variation for A1-A3

|  |  |
| --- | --- |
| Specific data and data variation |  |
| Specific data |  |
| Variation - product |  |
| Variation - site |  |

## Hazardous substances

[ ]  The product does not contain any REACH SVHC substances in amounts greater than 0.1 %.

|  |  |  |
| --- | --- | --- |
| Name | CAS no. | Amount |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# Contact information

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Author of Life Cycle Assessment (LCA)
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EPD verifier
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Email: [Email address]

# Bibliography

ISO 14020:2000
Environmental labels and declarations – General principles

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
Sustainability of construction works - Environmental product declaration - Core rules for the product category of construction products

EPD Square PCR v.1.0, 2024

EPD Square, General Programme Instructions v.1, 2024

Ecoinvent database v3.8 (2021) and One Click LCA database

LCA background report DD.MM.YYYY

# Annex

## Environmental impacts – EN 15804+A1, CML/ISO 21930

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Indicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| GWP | kg CO2 eq. |  |  |  |  |  |  |  |  |
| ODP | kg CFC11 eq. |  |  |  |  |  |  |  |  |
| AP | kg SO2 eq. |  |  |  |  |  |  |  |  |
| EP | kg PO4 eq. |  |  |  |  |  |  |  |  |
| POCP | kg C2H4 eq. |  |  |  |  |  |  |  |  |
| ADP-M&M | kg Sb eq. |  |  |  |  |  |  |  |  |
| ADP-fossil | MJ |  |  |  |  |  |  |  |  |

## Environmental impacts – GWP-GHG

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Indicator** | **Unit** | **A1-A3** | **A4** | **A5** | **C1** | **C2** | **C3** | **C4** | **D** |
| GWP - GHG | kg CO2e |  |  |  |  |  |  |  |  |

**GWP- GHG**: Global Warming Potential, greenhouse gases