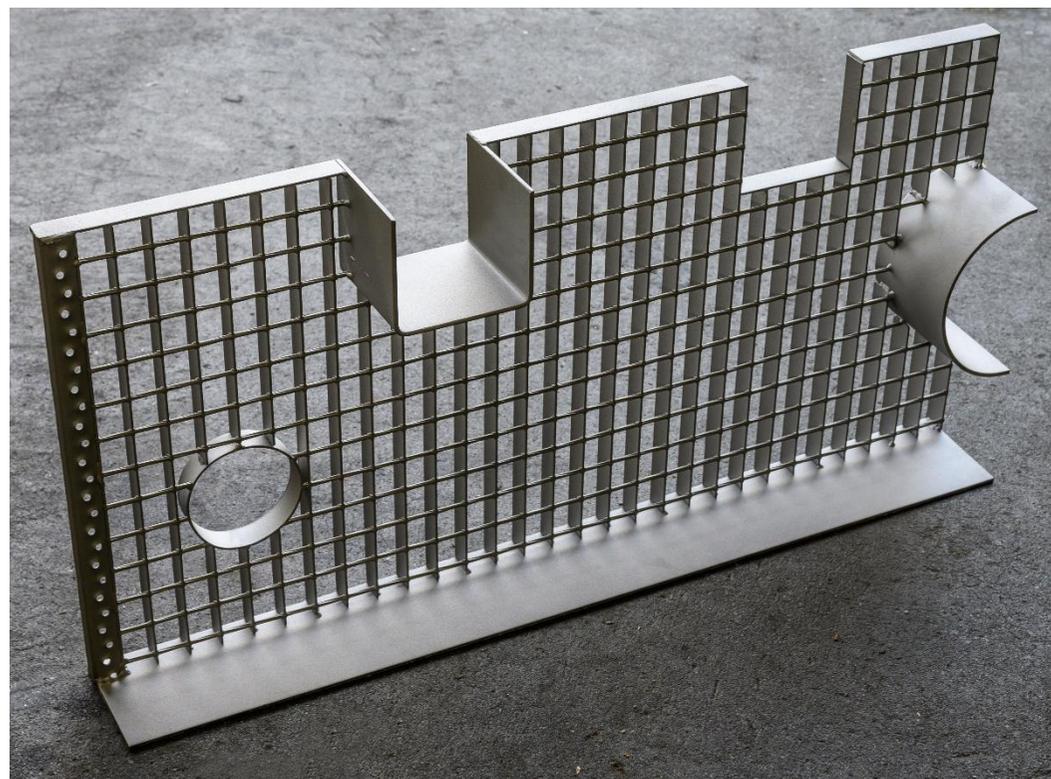


# ENVIRONMENTAL PRODUCT DECLARATION

## IN ACCORDANCE WITH EN 15804+A2 & ISO 14025 / ISO 21930

Platform gratings without protection  
Mostostal Siedlce Sp. z o.o.



**EPD HUB, HUB-2861**

Publishing date 24 January 2025, last updated on 24 January 2025, valid until 23 January 2030.

## GENERAL INFORMATION

### MANUFACTURER

|                 |   |
|-----------------|---|
| Manufacturer    | Mostostal Siedlce Sp. z o.o.  |
| Address         | Terespolska 12, 08-110 Siedlce, Poland  |
| Contact details | kraty-handel@polimex.pl   |
| Website         | <a href="https://www.mostostal.siedlce.pl/en/">https://www.mostostal.siedlce.pl/en/</a> |

### EPD STANDARDS, SCOPE AND VERIFICATION

|                    |  |
|--------------------|--|
| Program operator   | EPD Hub, hub@epdhub.com  |
| Reference standard | EN 15804+A2:2019 and ISO 14025   |
| PCR                | EPD Hub Core PCR version 1.1, 5 Dec 2023   |
| Sector             | Construction product   |
| Category of EPD    | Third party verified EPD   |
| Parent EPD number  | -  |
| Scope of the EPD   | Cradle to gate with options, A4, and modules C1-C4, D  |
| EPD author         | Luiza Matusik-Karska, Viverno Sp. z o.o.   |
| EPD verification   | Independent verification of this EPD and data, according to ISO 14025:<br><input type="checkbox"/> Internal verification <input checked="" type="checkbox"/> External verification |
| EPD verifier       | Magaly González Vázquez, as an authorized verifier acting for EPD Hub Limited  |

The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

### PRODUCT

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Product name                      | Platform gratings without protection |
| Additional labels                 | -                                    |
| Product reference                 | -                                    |
| Place of production               | Siedlce, Poland                      |
| Period for data                   | 1.01.2022-31.12.2022                 |
| Averaging in EPD                  | No averaging                         |
| Variation in GWP-fossil for A1-A3 | -                                    |

### ENVIRONMENTAL DATA SUMMARY

|  |          |
|--|----------|
| Declared unit                                | 1 ton    |
| Declared unit mass                           | 1000 kg  |
| GWP-fossil, A1-A3 (kgCO <sub>2</sub> e)      | 2,87E+03 |
| GWP-total, A1-A3 (kgCO <sub>2</sub> e)       | 2,80E+03 |
| Secondary material, inputs (%)               | 32.4     |
| Secondary material, outputs (%)              | 90       |
| Total energy use, A1-A3 (kWh)                | 9720     |
| Net fresh water use, A1-A3 (m <sup>3</sup> ) | 33.9     |

## PRODUCT AND MANUFACTURER

### ABOUT THE MANUFACTURER

Mostostal Siedlce belongs to the capital group Polimex-Mostostal, European leading manufacturers of steel structures. It specializes in production of steel structures and platform grates and in anti-corrosion protection of steel structures, including in particular the hot galvanization techniques. The company is also very active in the area of sales of transport and storage pallet for gas cylinders, construction materials pallets, various types of containers, racks, frames and other small structures. The company has the production area of 83 000 m<sup>2</sup>. Mostostal Siedlce manufactures steel products on the basis of the technical documentation of customer and on the basis of internal documentation, developed by constructors working at the Company. Documentation is developed according to the standards: PN, DIN, EN, EUROCODES, GOST in the following languages: Polish, Russian, German and English. The highest quality of products and services is confirmed with Certificates of the Integrated System including the following standards: ISO 9001, ISO 14001, PN-N-18001, OHSAS 18001, PN-EN ISO 3834, EN 1090. The Platform Grates Plant is the holder of the Technical Approval ITB and mark "B concerning platform grates and stairway steps. The Company has already received six times the prestigious European Medal for the product and services jointly awarded by the Committee for European Integration and Business Centre Club. In 2000 the Platform Grates Plant was awarded with the European Medal.

### PRODUCT DESCRIPTION

The EPD covers platform gratings which are manufactured in accordance with DIN 24537 standard, in Mostostal Siedlce, Poland. Due to very good strength to weight ratio as well as easy installation and utility values, our gratings can be used as platforms in communication flights in industrial plants, pedestrian bridges, protection of hatches and ducts. Platform gratings are produced using two techniques, welding and pressing, using modern CNC production lines.

Further information can be found at <https://www.mostostal.siedlce.pl/en/platform-gratings/offer/>

### PRODUCT RAW MATERIAL MAIN COMPOSITION

| Raw material category | Amount, mass- % | Material origin |
|-----------------------|-----------------|-----------------|
| Metals                | 100             | Europe          |
| Minerals              | -               | -               |
| Fossil materials      | -               | -               |
| Bio-based materials   | -               | -               |

### BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

|  |      |
|--|------|
| Biogenic carbon content in product, kg C   | 0    |
| Biogenic carbon content in packaging, kg C | 18.8 |

### FUNCTIONAL UNIT AND SERVICE LIFE

|                        |         |
|------------------------|---------|
| Declared unit          | 1 ton   |
| Mass per declared unit | 1000 kg |
| Functional unit        | -       |
| Reference service life | -       |

### SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

# PRODUCT LIFE-CYCLE

## SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

| Product stage |           |               | Assembly stage |          | Use stage |             |        |             |               |                        |                       | End of life stage |           |                  |          | Beyond the system boundaries |          |           |
|---------------|-----------|---------------|----------------|----------|-----------|-------------|--------|-------------|---------------|------------------------|-----------------------|-------------------|-----------|------------------|----------|------------------------------|----------|-----------|
| A1            | A2        | A3            | A4             | A5       | B1        | B2          | B3     | B4          | B5            | B6                     | B7                    | C1                | C2        | C3               | C4       | D                            |          |           |
| x             | x         | x             | x              | MND      | MND       | MND         | MND    | MND         | MND           | MND                    | MND                   | x                 | x         | x                | x        | x                            |          |           |
| Raw materials | Transport | Manufacturing | Transport      | Assembly | Use       | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | Deconstr./demol.  | Transport | Waste processing | Disposal | Reuse                        | Recovery | Recycling |

Modules not declared = MND. Modules not relevant = MNR.

## MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

Raw materials as wire and steel sheets are properly prepared before the final process. In the cutting process water is used. Platform gratings are produced using two techniques, welding and pressing.

The manufacturing process requires electricity and fuels for the different equipment. The production facility use gas heating. Part of the steel waste generated at the plant is directed for reuse in production processes and

the rest for recycling. The finished products are properly packed and loaded on trucks to be transported to construction site.

## TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

### Module A4:

Average distance of transportation from production plant to building site is assumed as 100 km and the transportation method is assumed to be a truck (EURO 5, 16 tonnes total load).

### Module A5:

Installation (A5) is excluded from the calculations.

## PRODUCT USE AND MAINTENANCE (B1-B7)

This EPD does not cover the use phase.

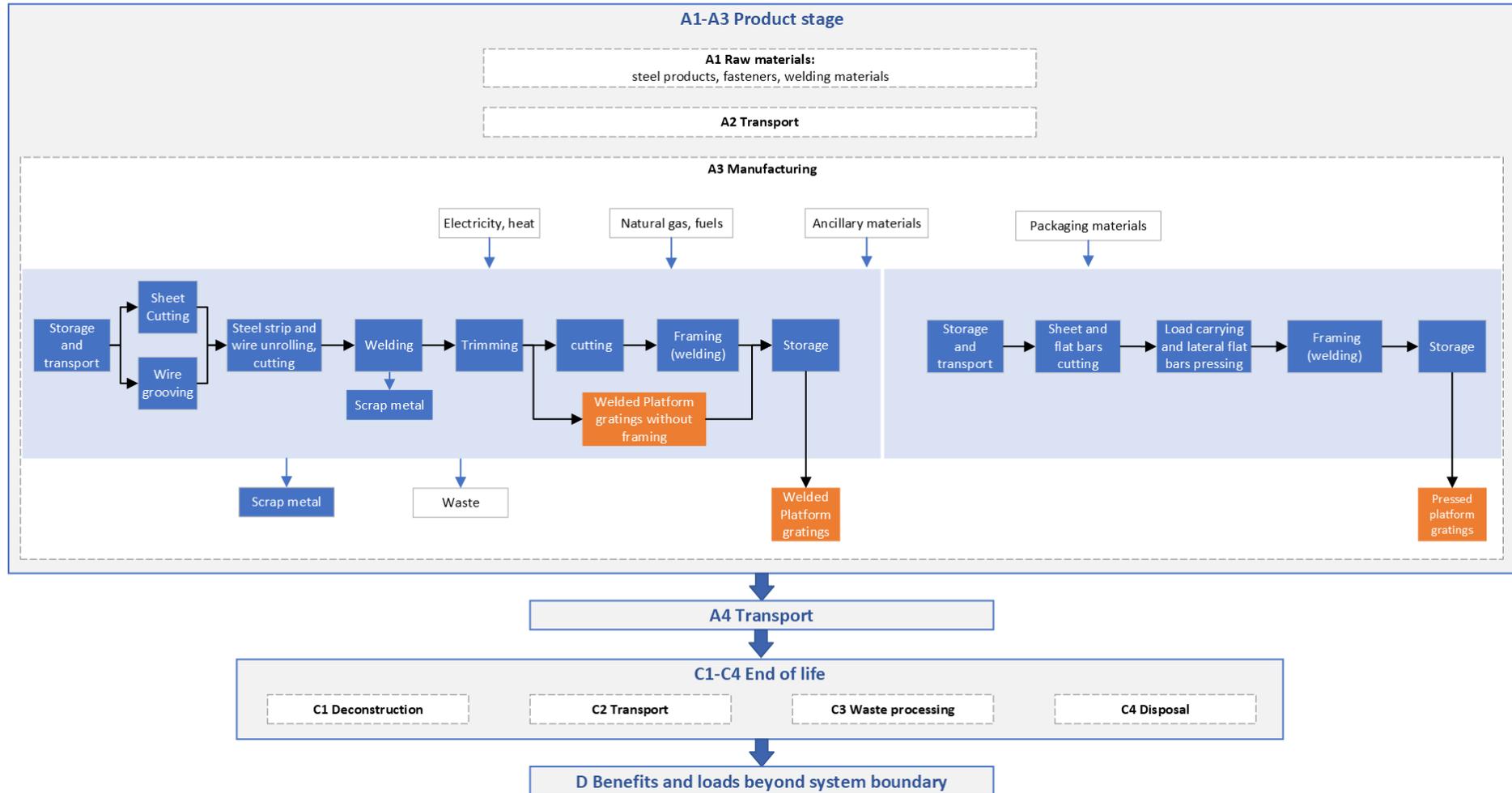
Air, soil, and water impacts during the use phase have not been studied.

## PRODUCT END OF LIFE (C1-C4, D)

Demolition is assumed to take 0,01 kWh/kg of product. It is assumed that 100% of the waste is collected (C1). The average waste transportation distance is estimated to be 50 km and the transportation method is assumed to be >32 metric ton, EURO6 truck (C2). It is assumed that 100% of the waste is collected and transported for further treatment. 85% of steel is assumed to be recycled (C3) and 15% of steel is taken to landfill for final disposal (C4) based on World Steel Association, 2020. Due to the recycling process the end-of-life product is converted into a recycled steel (D).

Plastic packaging waste is assumed to be landfilled (C4). Wood packaging waste is assumed to be incinerated with energy recovery (C3). Benefits due to energy export are taken into account (D).

# MANUFACTURING PROCESS



## LIFE-CYCLE ASSESSMENT

### CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

### ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

| Data type                      | Allocation  |
|--------------------------------|---|
| Raw materials                  | Partly allocated by mass/volume and partly by revenue |
| Packaging materials            | Allocated by mass or volume                           |
| Ancillary materials            | Allocated by mass or volume                           |
| Manufacturing energy and waste | Allocated by mass or volume                           |

### AVERAGES AND VARIABILITY

|                                   |                |
|-----------------------------------|----------------|
| Type of average                   | No averaging   |
| Averaging method                  | Not applicable |
| Variation in GWP-fossil for A1-A3 | -              |

This EPD is product and factory specific and does not contain average calculations.

### LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.8, Plastics Europe, Federal LCA Commons and One Click LCA databases as sources of environmental data.

# ENVIRONMENTAL IMPACT DATA

## CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

| Impact category                     | Unit                   | A1       | A2       | A3        | A1-A3     | A4       | A5  | B1  | B2  | B3  | B4  | B5  | B6  | B7  | C1       | C2       | C3       | C4       | D         |
|-------------------------------------|------------------------|----------|----------|-----------|-----------|----------|-----|-----|-----|-----|-----|-----|-----|-----|----------|----------|----------|----------|-----------|
| GWP – total <sup>1)</sup>           | kg CO <sub>2</sub> e   | 2,45E+03 | 6,97E+01 | 2,83E+02  | 2,80E+03  | 1,74E+01 | MND | 3,31E+00 | 4,73E+00 | 8,80E+01 | 8,39E-01 | -6,21E+02 |
| GWP – fossil                        | kg CO <sub>2</sub> e   | 2,44E+03 | 6,97E+01 | 3,52E+02  | 2,87E+03  | 1,74E+01 | MND | 3,31E+00 | 4,73E+00 | 1,91E+01 | 8,38E-01 | -6,21E+02 |
| GWP – biogenic                      | kg CO <sub>2</sub> e   | 0,00E+00 | 0,00E+00 | -6,89E+01 | -6,89E+01 | 0,00E+00 | MND | 0,00E+00 | 0,00E+00 | 6,89E+01 | 0,00E+00 | 0,00E+00  |
| GWP – LULUC                         | kg CO <sub>2</sub> e   | 1,88E+00 | 2,84E-02 | 1,61E-01  | 2,07E+00  | 7,08E-03 | MND | 3,30E-04 | 1,84E-03 | 2,46E-02 | 7,47E-04 | 6,23E-01  |
| Ozone depletion pot.                | kg CFC <sub>11</sub> e | 1,14E-04 | 1,54E-05 | 2,52E-05  | 1,55E-04  | 3,83E-06 | MND | 7,07E-07 | 1,11E-06 | 2,36E-06 | 3,21E-07 | -1,77E-05 |
| Acidification potential             | mol H <sup>+</sup> e   | 1,05E+01 | 2,88E-01 | 2,14E+00  | 1,29E+01  | 7,18E-02 | MND | 3,44E-02 | 1,54E-02 | 2,52E-01 | 7,46E-03 | -2,46E+00 |
| EP-freshwater <sup>2)</sup>         | kg Pe                  | 1,07E-01 | 5,88E-04 | 3,14E-02  | 1,39E-01  | 1,46E-04 | MND | 1,10E-05 | 4,00E-05 | 1,01E-03 | 8,31E-06 | -6,35E-03 |
| EP-marine                           | kg Ne                  | 8,58E+01 | 8,42E-02 | 2,90E-01  | 8,61E+01  | 2,10E-02 | MND | 1,52E-02 | 3,38E-03 | 5,72E-02 | 2,65E-03 | -2,96E-02 |
| EP-terrestrial                      | mol Ne                 | 2,33E+01 | 9,29E-01 | 3,23E+00  | 2,75E+01  | 2,31E-01 | MND | 1,67E-01 | 3,75E-02 | 6,61E-01 | 2,84E-02 | -6,40E+00 |
| POCP (“smog”) <sup>3)</sup>         | kg NMVOCe              | 2,35E+02 | 2,83E-01 | 9,72E-01  | 2,36E+02  | 7,04E-02 | MND | 4,59E-02 | 1,45E-02 | 1,81E-01 | 8,28E-03 | -3,46E+00 |
| ADP-minerals & metals <sup>4)</sup> | kg Sbe                 | 2,56E-02 | 2,42E-04 | 3,78E-04  | 2,62E-02  | 6,04E-05 | MND | 1,68E-06 | 1,15E-05 | 2,51E-03 | 1,83E-06 | -1,86E-02 |
| ADP-fossil resources                | MJ                     | 2,64E+04 | 1,01E+03 | 4,29E+03  | 3,17E+04  | 2,51E+02 | MND | 4,45E+01 | 7,40E+01 | 2,57E+02 | 2,18E+01 | -5,27E+03 |
| Water use <sup>5)</sup>             | m <sup>3</sup> e depr. | 1,07E+03 | 4,42E+00 | 8,15E+01  | 1,16E+03  | 1,10E+00 | MND | 1,20E-01 | 3,30E-01 | 5,91E+00 | 6,98E-02 | 2,41E+02  |

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO4e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

### ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

| Impact category                  | Unit      | A1       | A2       | A3       | A1-A3    | A4       | A5  | B1  | B2  | B3  | B4  | B5  | B6  | B7  | C1       | C2       | C3       | C4       | D         |
|----------------------------------|-----------|----------|----------|----------|----------|----------|-----|-----|-----|-----|-----|-----|-----|-----|----------|----------|----------|----------|-----------|
| Particulate matter               | Incidence | 1,79E-04 | 5,93E-06 | 1,11E-05 | 1,96E-04 | 1,48E-06 | MND | 9,22E-07 | 5,37E-07 | 3,21E-06 | 1,50E-07 | -2,17E-05 |
| Ionizing radiation <sup>6)</sup> | kBq U235e | 1,40E+02 | 4,69E+00 | 1,59E+01 | 1,60E+02 | 1,17E+00 | MND | 2,05E-01 | 3,54E-01 | 2,83E+00 | 9,87E-02 | 2,61E+00  |
| Ecotoxicity (freshwater)         | CTUe      | 6,77E+04 | 9,30E+02 | 4,79E+03 | 7,35E+04 | 2,32E+02 | MND | 2,68E+01 | 6,58E+01 | 1,15E+03 | 1,43E+01 | -1,44E+04 |
| Human toxicity, cancer           | CTUh      | 1,78E-05 | 2,61E-08 | 2,03E-07 | 1,80E-05 | 6,50E-09 | MND | 1,03E-09 | 1,61E-09 | 4,99E-08 | 3,56E-10 | 6,15E-06  |
| Human tox. non-cancer            | CTUh      | 6,89E-05 | 8,65E-07 | 5,11E-06 | 7,49E-05 | 2,15E-07 | MND | 1,94E-08 | 6,34E-08 | 1,61E-06 | 9,29E-09 | 3,65E-05  |
| SQP <sup>7)</sup>                | -         | 7,97E+03 | 6,98E+02 | 6,97E+03 | 1,56E+04 | 1,74E+02 | MND | 5,79E+00 | 8,51E+01 | 5,09E+02 | 4,66E+01 | -2,36E+03 |

6) EN 15804+A2 disclaimer for ionizing radiation, human health. 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; 7) SQP = Land use related impacts/soil quality.

### USE OF NATURAL RESOURCES

| Impact category                    | Unit           | A1       | A2       | A3       | A1-A3    | A4       | A5  | B1  | B2  | B3  | B4  | B5  | B6  | B7  | C1       | C2       | C3        | C4        | D         |
|------------------------------------|----------------|----------|----------|----------|----------|----------|-----|-----|-----|-----|-----|-----|-----|-----|----------|----------|-----------|-----------|-----------|
| Renew. PER as energy <sup>8)</sup> | MJ             | 2,45E+03 | 1,18E+01 | 8,76E+02 | 3,34E+03 | 2,95E+00 | MND | 2,54E-01 | 8,33E-01 | 4,49E+01  | 1,94E-01  | -7,98E+02 |
| Renew. PER as material             | MJ             | 0,00E+00 | 0,00E+00 | 5,75E+02 | 5,75E+02 | 0,00E+00 | MND | 0,00E+00 | 0,00E+00 | -5,75E+02 | 0,00E+00  | 0,00E+00  |
| Total use of renew. PER            | MJ             | 2,45E+03 | 1,18E+01 | 1,45E+03 | 3,91E+03 | 2,95E+00 | MND | 2,54E-01 | 8,33E-01 | -5,30E+02 | 1,94E-01  | -7,98E+02 |
| Non-re. PER as energy              | MJ             | 2,64E+04 | 1,01E+03 | 4,25E+03 | 3,17E+04 | 2,51E+02 | MND | 4,45E+01 | 7,40E+01 | 2,57E+02  | 2,18E+01  | -5,27E+03 |
| Non-re. PER as material            | MJ             | 0,00E+00 | 0,00E+00 | 3,08E+01 | 3,08E+01 | 0,00E+00 | MND | 0,00E+00 | 0,00E+00 | -1,98E+01 | -1,09E+01 | 0,00E+00  |
| Total use of non-re. PER           | MJ             | 2,64E+04 | 1,01E+03 | 4,28E+03 | 3,17E+04 | 2,51E+02 | MND | 4,45E+01 | 7,40E+01 | 2,37E+02  | 1,08E+01  | -5,27E+03 |
| Secondary materials                | kg             | 3,24E+02 | 3,32E-01 | 2,39E+00 | 3,27E+02 | 8,27E-02 | MND | 1,74E-02 | 2,05E-02 | 2,96E-01  | 4,59E-03  | 4,14E+02  |
| Renew. secondary fuels             | MJ             | 2,99E-01 | 4,30E-03 | 1,01E+01 | 1,04E+01 | 1,07E-03 | MND | 5,70E-05 | 2,07E-04 | 1,46E-02  | 1,21E-04  | -8,23E-02 |
| Non-ren. secondary fuels           | MJ             | 9,03E-23 | 0,00E+00 | 0,00E+00 | 9,03E-23 | 0,00E+00 | MND | 0,00E+00 | 0,00E+00 | 0,00E+00  | 0,00E+00  | 0,00E+00  |
| Use of net fresh water             | m <sup>3</sup> | 2,66E+01 | 1,19E-01 | 7,17E+00 | 3,39E+01 | 2,97E-02 | MND | 2,70E-03 | 9,56E-03 | 1,72E-01  | 2,38E-02  | -1,69E+01 |

8) PER = Primary energy resources.

### END OF LIFE – WASTE

| Impact category     | Unit | A1       | A2       | A3       | A1-A3    | A4       | A5  | B1  | B2  | B3  | B4  | B5  | B6  | B7  | C1       | C2       | C3       | C4       | D         |
|---------------------|------|----------|----------|----------|----------|----------|-----|-----|-----|-----|-----|-----|-----|-----|----------|----------|----------|----------|-----------|
| Hazardous waste     | kg   | 8,72E+02 | 1,45E+00 | 3,05E+01 | 9,04E+02 | 3,62E-01 | MND | 5,96E-02 | 9,75E-02 | 1,71E+00 | 0,00E+00 | -3,71E+02 |
| Non-hazardous waste | kg   | 3,90E+03 | 2,32E+01 | 1,44E+03 | 5,37E+03 | 5,78E+00 | MND | 4,19E-01 | 1,60E+00 | 1,05E+02 | 1,50E+02 | -1,33E+03 |
| Radioactive waste   | kg   | 1,12E-01 | 6,67E-03 | 6,96E-03 | 1,26E-01 | 1,66E-03 | MND | 3,13E-04 | 4,99E-04 | 1,48E-03 | 0,00E+00 | -8,82E-04 |

### END OF LIFE – OUTPUT FLOWS

| Impact category          | Unit | A1       | A2       | A3       | A1-A3    | A4       | A5  | B1  | B2  | B3  | B4  | B5  | B6  | B7  | C1       | C2       | C3       | C4       | D        |
|--------------------------|------|----------|----------|----------|----------|----------|-----|-----|-----|-----|-----|-----|-----|-----|----------|----------|----------|----------|----------|
| Components for re-use    | kg   | 1,50E-03 | 0,00E+00 | 3,84E+00 | 3,84E+00 | 0,00E+00 | MND | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Materials for recycling  | kg   | 1,10E+00 | 0,00E+00 | 0,00E+00 | 1,10E+00 | 0,00E+00 | MND | 0,00E+00 | 0,00E+00 | 8,50E+02 | 0,00E+00 | 0,00E+00 |
| Materials for energy rec | kg   | 7,86E-04 | 0,00E+00 | 0,00E+00 | 7,86E-04 | 0,00E+00 | MND | 0,00E+00 | 0,00E+00 | 5,03E+01 | 0,00E+00 | 0,00E+00 |
| Exported energy          | MJ   | 1,72E-01 | 0,00E+00 | 0,00E+00 | 1,72E-01 | 0,00E+00 | MND | 0,00E+00 | 0,00E+00 | 5,13E+02 | 0,00E+00 | 0,00E+00 |

### ENVIRONMENTAL IMPACTS – FRENCH NATIONAL COMPLEMENTS

| Impact category          | Unit           | A1       | A2       | A3       | A1-A3    | A4       | A5  | B1  | B2  | B3  | B4  | B5  | B6  | B7  | C1       | C2       | C3       | C4       | D         |
|--------------------------|----------------|----------|----------|----------|----------|----------|-----|-----|-----|-----|-----|-----|-----|-----|----------|----------|----------|----------|-----------|
| ADP-elements             | kg Sbe         | 2,54E-02 | 2,37E-04 | 3,74E-04 | 2,60E-02 | 5,90E-05 | MND | 1,65E-06 | 1,12E-05 | 2,51E-03 | 1,80E-06 | -1,86E-02 |
| Hazardous waste disposed | kg             | 8,72E+02 | 1,45E+00 | 3,05E+01 | 9,04E+02 | 3,62E-01 | MND | 5,96E-02 | 9,75E-02 | 1,71E+00 | 0,00E+00 | -3,71E+02 |
| Non-haz. waste disposed  | kg             | 3,88E+03 | 2,32E+01 | 1,44E+03 | 5,35E+03 | 5,78E+00 | MND | 4,19E-01 | 1,60E+00 | 1,05E+02 | 1,50E+02 | -1,33E+03 |
| Air pollution            | m <sup>3</sup> | 9,31E+05 | 1,07E+04 | 8,79E+04 | 1,03E+06 | 2,67E+03 | MND | 4,54E+02 | 8,46E+02 | 8,20E+03 | 1,74E+02 | -3,42E+05 |
| Water pollution          | m <sup>3</sup> | 1,26E+04 | 8,01E+01 | 1,57E+03 | 1,43E+04 | 2,00E+01 | MND | 1,97E+00 | 5,19E+00 | 4,03E+02 | 3,27E+00 | 1,40E+03  |

## VERIFICATION STATEMENT

### VERIFICATION PROCESS FOR THIS EPD

This EPD has been verified in accordance with ISO 14025 by an independent, third-party verifier by reviewing results, documents and compliance with reference standard, ISO 14025 and ISO 14040/14044, following the process and checklists of the program operator for:

- This Environmental Product Declaration
- The Life-Cycle Assessment used in this EPD
- The digital background data for this EPD

Why does verification transparency matter? [Read more online](#)

This EPD has been generated by One Click LCA EPD generator, which has been verified and approved by the EPD Hub.

### THIRD-PARTY VERIFICATION STATEMENT

I hereby confirm that, following detailed examination, I have not established any relevant deviations by the studied Environmental Product Declaration (EPD), its LCA and project report, in terms of the data collected and used in the LCA calculations, the way the LCA-based calculations have been carried out, the presentation of environmental data in the EPD, and other additional environmental information, as present with respect to the procedural and methodological requirements in ISO 14025:2010 and reference standard.

I confirm that the company-specific data has been examined as regards plausibility and consistency; the declaration owner is responsible for its factual integrity and legal compliance.

I confirm that I have sufficient knowledge and experience of construction products, this specific product category, the construction industry, relevant standards, and the geographical area of the EPD to carry out this verification.

I confirm my independence in my role as verifier; I have not been involved in the execution of the LCA or in the development of the declaration and have no conflicts of interest regarding this verification.

Magaly González Vázquez, as an authorized verifier acting for EPD Hub Limited  
24.01.2025



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