



Environmental Product Declaration

Cold rolled steel sheets and slit coils

EPD of multiple products, based on the average results of the product group

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021

Programme: The International EPD® System, www.environdec.com

Programme operator: EPD International AB

EPD owner: SSAB Europe Oy

EPD registration number: EPD-IES-0023966

Publication date: 2025-06-16

Valid until: 2030-06-04

SSAB

Contents

| | |
|--|----|
| 1. General information | 3 |
| 1.1 SSAB's vision – A stronger, lighter and more sustainable world | 4 |
| 1.2 Company information | 4 |
| 2. Product information | 4 |
| 2.1 Product technical information and applications | 4 |
| 2.2 Product description | 4 |
| 2.3 Labeling and packaging | 5 |
| 3. Production and transportation | 5 |
| 3.1 Production sites | 5 |
| 3.2 Transportation | 5 |
| 4. LCA | 6 |
| 4.1 LCA information | 6 |
| 4.2 Product content declaration | 8 |
| 4.3 Environmental performance indicators results | 8 |
| 5. References | 11 |

1. General information

PROGRAM INFORMATION

| | |
|-----------------|---|
| Program: | The International EPD® System |
| Address: | EPD International AB Box 210 60 SE-100 31 Stockholm Sweden |
| Website: | www.environdec.com |
| Email: | info@environdec.com |

| |
|---|
| Accountabilities for PCR, LCA and independent, third-party verification |
| Product Category Rules (PCR) |
| Core product category rules: CEN standard EN 15804 serves as the core PCR. |
| Product category rules: PCR 2019:14 Construction products. Version 1.3.4. Date 2024-04-30. |
| Product group classification: UN CPC 412. |
| PCR review was conducted by: The Technical Committee of the International EPD System. See www.environdec.com for a list of members. Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat www.environdec.com/contact . |
| Life Cycle Assessment (LCA) |
| LCA accountability: Lisa Hallberg, IVL Swedish Environmental Research Institute. |
| Third-party verification |
| Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: <input checked="" type="checkbox"/> EPD verification by individual verifier Third-party verifier: David Althoff Palm, Dalemarken AB. |
| Approved by: The International EPD® System |
| Procedure for follow-up of data during EPD validity involves third party verifier: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No [Procedure for follow-up the validity of the EPD is at minimum required once a year with the aim of confirming whether the information in the EPD remains valid or if the EPD needs to be updated during its validity period. The follow-up can be organized entirely by the EPD owner or together with the original verifier via an agreement between the two parties. In both approaches, the EPD owner is responsible for the procedure being carried out. If a change that requires an update is identified, the EPD shall be re-verified by a verifier] |

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent

system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterization factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

1.1 SSAB'S VISION – A STRONGER, LIGHTER AND MORE SUSTAINABLE WORLD

SSAB is a global steel company with a leading position in high-strength steels and related services. The company is a frontrunner in the green transformation of the steel industry and aims to largely eliminate carbon dioxide emissions from its operations and together with suppliers and customers create a fossil-free value chain.

SSAB's production sites are in Sweden, Finland and the USA and have an annual crude steel production capacity of 8.8 million tonnes. SSAB Europe is responsible for sales of strip, heavy plate, and tubular products in Europe as well as for the global business in the Automotive customer segment. SSAB Special Steels has global responsibility for sales of SSAB's quenched and tempered (Q&T) steels and advanced high-strength steels (AHSS). SSAB Americas is the largest heavy plate producer in North America and has a strong position based on cost efficiency and quality.

1.2 COMPANY INFORMATION

EPD owner:

SSAB Europe Oy, Kaisa Ahvonen, Harvialantie 420, 13300 Hämeenlinna, Finland.

Description of the organizations:

- SSAB Europe is responsible for strip, heavy plate, and tubular products in Europe as well as for the global business in the Automotive customer segment. SSAB Europe is also responsible for color coated products.

Name and location of production sites:

- SSAB EMEA AB (Luleå, Sweden): Svartövägen 20, 974 37 Luleå (Sweden).
- SSAB EMEA AB (Oxelösund, Sweden): Aspleden 1, 613 80 Oxelösund (Sweden).
- SSAB EMEA AB (Borlänge, Sweden): Kontorsviksvägen 1, 781 84 Borlänge (Sweden).
- SSAB Europe Oy (Raahe, Finland): Rautaruukintie 155, 92100 Raahe (Finland).
- SSAB Europe Oy (Hämeenlinna, Finland): Harvialantie 420, 13300 Hämeenlinna (Finland).

Certifications:

Certificates applicable to SSAB sites are ISO 14001 and ISO 9001.

Contact:

EPDssab@ssab.com.

2. Product information

2.1 PRODUCT TECHNICAL INFORMATION AND APPLICATIONS

SSAB specializes in materials for demanding applications where high strength and formability are needed for weight savings and increased durability. Cold rolled steel sheets and slit coils are used in many industries and applications, including automotive industry, construction, light engineering, domestic and electrical appliances, heating and air conditioning equipments, storage systems, and tubular products.

SSAB offers a comprehensive selection of steel products that includes cold-forming steels, advanced high-strength steels, complex phase steels, martensitic steels, ultrahigh-strength steels, weather-resistant steels and hardenable boron steels.

Cold rolled steel sheets and slit coils are produced in a thickness range of 0.40–3.0 mm.

The products are often customized to meet national and/or international standards as well as customer-specific or other Original Equipment Manufacturer (OEM) standards. Besides standardized steel grades, SSAB's cold rolled product portfolio also includes products unique to SSAB and which in some cases may be patented.

For more detailed information about technical product properties and the product portfolio, please visit www.ssab.com.

2.2 PRODUCT DESCRIPTION

The scope of this EPD is SSAB cold rolled blast furnace-based steel sheets and slit coils.

The steel is an alloy of mainly iron and carbon and may contain other alloying metals and trace elements. These alloying elements improve the chemical and physical properties of steel, such as strength, ductility, durability, and corrosion resistance.

The exact composition of the steel manufactured by SSAB depends on product requirements, either based on national and/or international standards, such as EN 10130, EN 10268, EN 10338, VDA 239-100, on customer-specific and/or other OEM standards. SSAB's unique products also have their own specific requirements.

Content declaration and average chemical composition are presented in section 4.2. More detailed information on the different steel compositions is available from national and international standards, and on www.ssab.com.

2.3 LABELING AND PACKAGING

SSAB products are labeled to be easily identifiable and traceable. The packaging and protection type of SSAB steel products is specified when ordering.

Steel bands or strappings, wood props, paper or plastic film, corner protection and other accessories supporting packaging are used as appropriate, depending on the protection needed. Paper and plastic film are usually used

for cut-to-lengths packaging. The bundles are fastened with strapping bands.

Depending on orders, coils can be delivered fastened with or without a pallet, protected with cardboard or laminated plastic, and plastic or metallic end rings, metallic corner protection and strapping bands.

3. Production and transportation

3.1 PRODUCTION SITES

Blast furnace-based steel slabs used for cold rolled steels are typically manufactured at SSAB Luleå and at SSAB Oxelösund in Sweden. Slabs are produced using iron ore pellets and, as an energy source and reducing agent, coke from coal, and injection carbon. These raw materials are charged into a blast furnace to produce molten hot metal, pig iron.

Steel scrap and alloying elements are then added to the hot metal along with slag forming burnt lime, and oxygen is blown through the mixture to convert it into liquid steel in the basic oxygen furnace (BOF). The liquid crude steel is then cast into slabs on a continuous casting line.

Blast furnace-based steel slabs are hot rolled, pickled, cold rolled, continuous annealed and tempered or batch

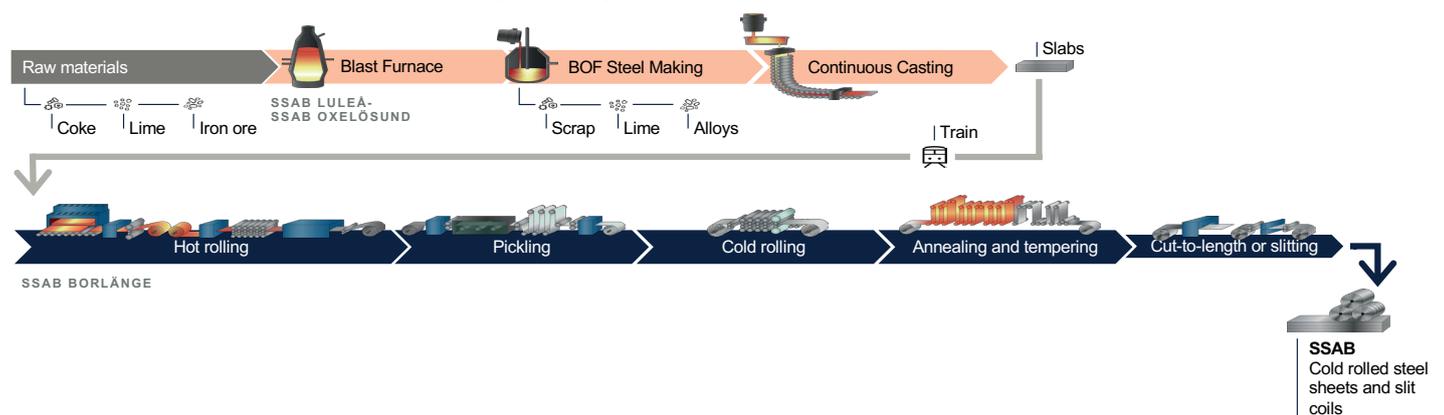
annealed and tempered, and cut-to-length or slitted at SSAB Borlänge (Sweden).

Pickling, cold rolling, batch annealing and tempering, and cut-to-length or slitting can also be done at SSAB Hämeenlinna (Finland) using SSAB hot-rolled coils produced in Raahe (Finland).

Co-products, such as slag, mill scale and iron oxide, generated in SSAB's steel production processes are recycled as industrial raw materials or materials to replace virgin resources. A high percentage of the baghouse dust originating in various processes is recycled to reduce waste and improve efficiency.

FIGURE 1. SSAB main production sites and process steps for blast furnace-based cold rolled steel sheets and slit coils.

SSAB Cold Rolled Steel sheets and slit coils – main production processes



Note: pickling, cold rolling, batch annealing and tempering, and cut-to-length or slitting can also be done at SSAB Hämeenlinna (Finland) using SSAB hot-rolled coils produced in Raahe (Finland).

3.2 TRANSPORTATION

Blast furnace-based steel slabs from SSAB Luleå and from SSAB Oxelösund are transported by rail to SSAB

Borlänge. Hot rolled coils from SSAB Raahe are transported by rail to SSAB Hämeenlinna.

4. LCA

4.1 LCA INFORMATION

Declared unit:
1 kg of product

Reference service life:
Not applicable

Description of system boundaries:
The system boundaries are cradle-to-gate with modules C1–C4 and module D.

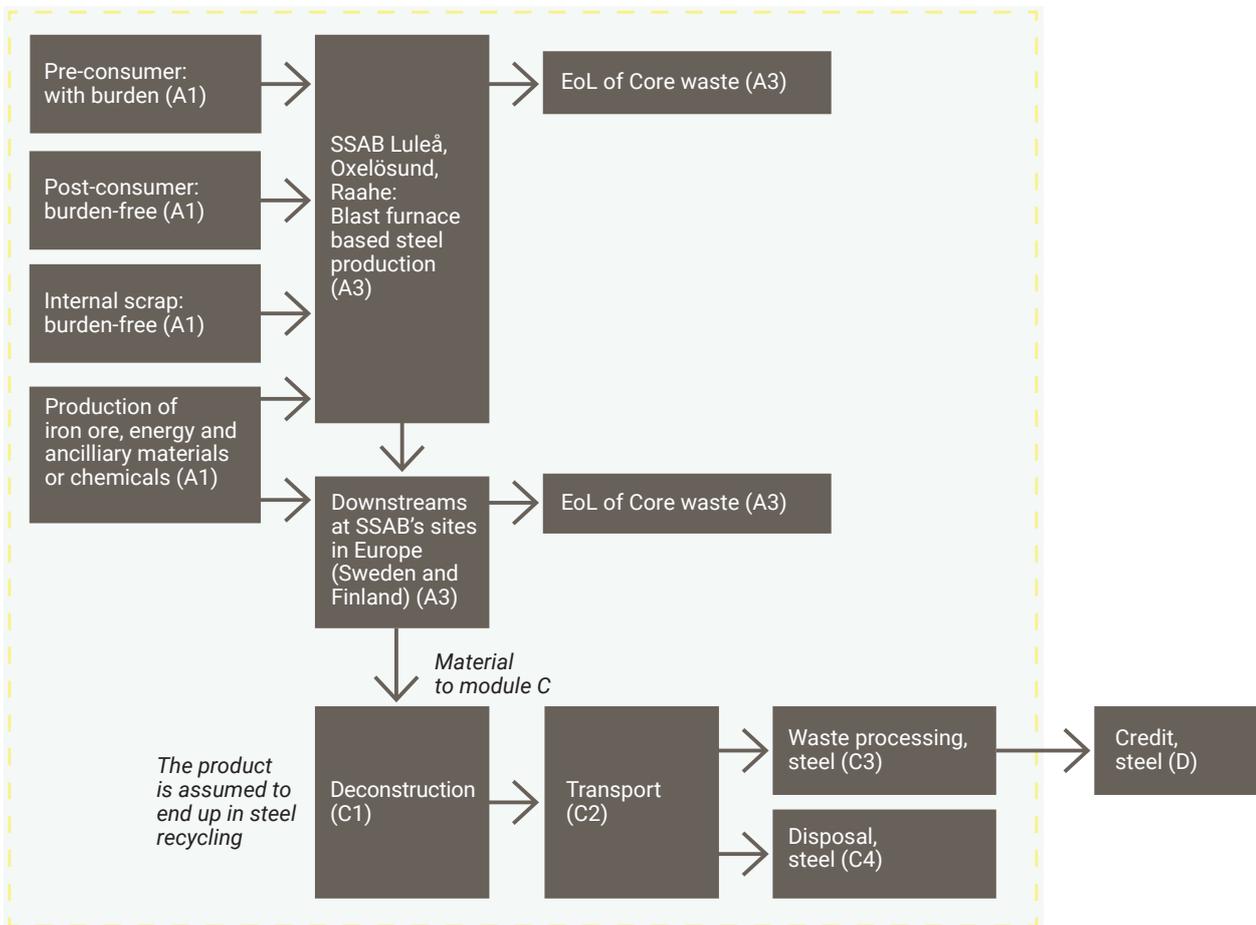
Time representativeness:

2023 for the steel slabs production at SSAB Oxelösund, 2023 for the steel slabs production at SSAB Luleå, 2021 for the steel slabs production at SSAB Raabe, 2022 for the steel processing at SSAB Borlänge, 2021 for the steel processing at SSAB Hämeenlinna.

Database(s) and LCA software used:

The LCA was modelled using the LCA software LCA for Experts and corresponding database (version 2024.1) provided by Sphera.

System diagram:



- Module A1: Production of raw materials and production of fuels
- Module A2: Transportation of raw materials to SSAB's manufacturing site (including transportation of steel between SSAB sites)
- Module A3: Manufacturing of steel products and management of production waste

- Module C1: Deconstruction of the product
- Module C2: Transport to waste processing and disposal
- Module C3: Waste processing of the product, to be sent to steel recycling
- Module C4: Disposal of the remaining part of the product in a landfill
- Module D: Benefits from recycling the steel

Allocation:

Pre-consumer scrap is used in the production of steel. The environmental burden from the use of this scrap is allocated based on economic value by making a conservative assumption equal to 5% of virgin (blast furnace-based) steel. This corresponds to a value of 0.1 kg CO₂eq per kg of pre-consumer scrap.

Co-products from blast furnace and coke making operations have been allocated based on economic value as per PCR 2019:14. Similarly, impact associated with internal energy generation have been allocated based on economic value.

Cut-off criteria:

The maximum cut-off criteria established by the PCR and EN 15804:2012+A2:2019 standard is 1% of all material and energy flows to a single unit process and 5% of total inflows (mass and energy) to the upstream and core module. No cut-offs exceeding this limit have been made.

Inclusion of infrastructure and capital goods:

Infrastructure and capital goods are not included in any of the modules covered in this EPD. For the electricity sources of renewable origin (within the residual mix), the infrastructure of the power plant is included.

Electricity information:

At SSAB Oxelösund, SSAB Luleå, and SSAB Raahe some of the electricity used is produced internally (corresponding to a GWP-GHG impact of 0.62, 0.36 and 2.03 kg CO₂eq per kWh, respectively). At SSAB Borlänge and SSAB Hämeenlinna, only external electricity is used. For external electricity, the residual electricity mix for

Sweden and for Finland has been applied (corresponding to a GWP-GHG impact of 0.07 kg CO₂eq per kWh, and 0.5 kg CO₂eq per kWh, respectively), however 30% from Hämeenlinna electricity is fossil free with GWP-GHG impact of 0.0046 kg CO₂eq per kWh.

Scenario for module C1:

The product is being deconstructed by a machine powered by diesel.

Scenario for module C2:

The waste is transported 150 km by truck to waste processing (C3) and disposal (C4).

Scenario for module C3:

98% of the product is assumed to be processed in order to be sent for recycling.

Scenario for module C4:

2% of the product is assumed to be disposed of as waste at a landfill.

Scenario for module D:

The environmental benefit of the recycled steel is gained through the avoided production of primary steel. This benefit corresponds to -1.7 kg CO₂eq per kg of scrap in module D. The net flow of the recycled steel being credited in module D corresponds to 0.86 kg and is based on an assumed recycling rate of 98% and an assumption of yield losses in the steel recycling process.

Weighted average for the EPD:

The results represent a weighted average based on the production volumes for the product group.

Modules declared, geographical scope, share of specific data (in GWP-GHG indicator) and data variation

| Life cycle stage | Module | Modules declared | Geography | Specific data used | Variation - products | Variation - sites | |
|----------------------------|------------------------------------|------------------|-----------|--------------------|----------------------|-------------------|------|
| Product stage | Raw material supply | A1 | X | EU, SE & FI | 76% | + 8% - 1% | <10% |
| | Transport | A2 | X | EU, SE & FI | | | |
| | Manufacturing | A3 | X | SE & FI | | | |
| Construction process stage | Transport | A4 | ND | - | - | - | |
| | Construction installation | A5 | ND | - | - | - | |
| Use stage | Use | B1 | ND | - | - | - | |
| | Maintenance | B2 | ND | - | - | - | |
| | Repair | B3 | ND | - | - | - | |
| | Replacement | B4 | ND | - | - | - | |
| | Refurbishment | B5 | ND | - | - | - | |
| | Operational energy use | B6 | ND | - | - | - | |
| | Operational water use | B7 | ND | - | - | - | |
| End of life stage | De-construction demolition | C1 | X | EU | - | - | |
| | Transport | C2 | X | EU | - | - | |
| | Waste processing | C3 | X | EU | - | - | |
| | Disposal | C4 | X | EU | - | - | |
| Resource recovery stage | Reuse-Recovery-Recycling-potential | D | X | EU | - | - | |

X: Module Declared

ND: Module not declared

4.2 PRODUCT CONTENT DECLARATION

Pre- and postconsumer scrap content is 4.1%.
Recycled material content with internal scrap is 18.9%.

Content declaration and average chemical composition of cold rolled steel sheets and slit coils per kg produced is:

| Product Composition | Weight (%) | Weight (kg) | Biogenic carbon, weight (%) | Biogenic carbon, weight (kg) |
|-------------------------------|------------|-------------|-----------------------------|------------------------------|
| Pre-consumer scrap | 2.1% | 0.021 | 0% | 0 |
| Post-consumer scrap | 2.0% | 0.020 | 0% | 0 |
| Internal scrap | 14.8% | 0.148 | 0% | 0 |
| Primary steel | 81.2% | 0.812 | 0% | 0 |
| Average chemical composition* | | | | |
| Iron (Fe) | > 97% | | | |
| Manganese (Mn) | 0.6% | | | |
| Silicon (Si) | 0.3% | | | |
| Carbon (C) | 0.1% | | | |
| Other | < 1.5% | | | |

* The figures provided represent the best estimate at the time of publication.

| Content Declaration of renewable packaging material | Weight (kg) | Weight % (of product) | Biogenic carbon, weight (kg/declared unit) |
|---|-------------|-----------------------|--|
| Wood | 0.0030 | 0.30% | 0.0013 |

The production of the packaging materials has been omitted since it falls under the cut-off limit. The content of biogenic material in the packaging is 0.0013 kg per kg of steel.

Cold rolled steel sheets and slit coils do not contain any of the substances of very high concern (SVHC) regulated by Regulation (EC) No 1907/2006 (REACH) or Regulation (EC) No 1272/2008 of the European Parliament and of the Council.

4.3 ENVIRONMENTAL PERFORMANCE INDICATOR RESULTS

The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks. Usage of results from A1–A3 without considering the results of module C is not encouraged.

Potential environmental impact – mandatory indicators according to EN 15804+A2 (version EF 3.1)

| Results per declared unit: 1 kg of product | | | | | | | | |
|--|---|-----------------------|-------------|----------|----------|----------|----------|-----------|
| Indicator | | Unit | A1 – A3 | C1 | C2 | C3 | C4 | D |
| Global warming potential (GWP) | Climate Change - fossil | kg CO ₂ eq | 2.17 | 4.39E-04 | 1.01E-02 | 2.71E-03 | 2.99E-04 | -1.49 |
| | Climate Change - biogenic | kg CO ₂ eq | 8.16E-04 | 1.34E-06 | 2.68E-05 | 1.01E-05 | 9.52E-07 | 3.16E-04 |
| | Climate Change - land use and land use change (LULUC) | kg CO ₂ eq | 4.81E-04 | 7.31E-06 | 8.61E-05 | 3.66E-05 | 1.80E-06 | -1.98E-04 |
| | Climate Change - total | kg CO ₂ eq | 2.17 | 4.47E-04 | 1.03E-02 | 2.76E-03 | 3.02E-04 | -1.49 |
| Depletion potential of the stratospheric ozone layer (ODP) | | kg CFC-11 eq | 6.00E-12 | 4.39E-17 | 1.34E-18 | 4.89E-15 | 8.08E-16 | 2.00E-12 |
| Acidification potential (AP) | | mole H+ eq | 4.76E-03 | 3.01E-06 | 1.18E-05 | 1.36E-05 | 2.13E-06 | -3.64E-03 |
| Eutrophication potential (EP) | Freshwater | kg P eq | 7.71E-07 | 1.86E-09 | 3.12E-08 | 1.05E-08 | 6.80E-10 | -3.47E-07 |
| | Marine | kg N eq | 1.35E-03 | 1.49E-06 | 3.93E-06 | 6.24E-06 | 5.47E-07 | -5.85E-04 |
| | Terrestrial | mole N eq | 1.43E-02 | 1.65E-05 | 4.74E-05 | 6.90E-05 | 6.03E-06 | -5.24E-03 |
| Formation potential of tropospheric ozone (POCP) | | kg NMVOC eq | 3.78E-03 | 2.89E-06 | 1.01E-05 | 1.73E-05 | 1.67E-06 | -2.38E-03 |
| Abiotic depletion potential (ADP) | Minerals and metals* | kg Sb eq | 7.64E-06 | 3.71E-11 | 8.05E-10 | 2.84E-09 | 1.94E-11 | -8.43E-06 |
| | Fossil resources* | MJ | 28.7 | 5.68E-03 | 0.140 | 5.07E-02 | 3.95E-03 | -14.8 |
| Water scarcity potential (WDP)* | | m ³ | 0.179 | 6.48E-06 | 9.13E-05 | 5.18E-04 | 3.43E-05 | -0.100 |

* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

Note: Biogenic carbon in packaging is balanced in A1–A3.

Additional mandatory and voluntary impact category indicators

| Results per declared unit: 1 kg of product | | | | | | | | |
|--|------------------------|-----------------------|---------|----------|----------|----------|----------|-------|
| Indicator | | Unit | A1 – A3 | C1 | C2 | C3 | C4 | D |
| Global warming potential (GWP) | GWP-GHG ⁽¹⁾ | kg CO ₂ eq | 2.17 | 4.47E-04 | 1.03E-02 | 2.76E-03 | 3.02E-04 | -1.49 |

(1) This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the characterization factor for biogenic CO₂ is set to zero.

Resource use indicators

| Results per declared unit: 1 kg of product | | | | | | | | |
|---|--------------------------------|----------------|----------|----------|----------|----------|----------|----------|
| Indicator | | Unit | A1 – A3 | C1 | C2 | C3 | C4 | D |
| Primary energy resources – Renewable | Used as energy carrier (PERE) | MJ | 1.28 | 4.80E-04 | 7.81E-03 | 5.41E-03 | 6.89E-04 | 0.584 |
| | Used as raw materials (PERM) | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Total (PERT) | MJ | 1.28 | 4.80E-04 | 7.81E-03 | 5.41E-03 | 6.89E-04 | 0.584 |
| Primary energy resources – Non-renewable | Used as energy carrier (PENRE) | MJ | 28.7 | 5.68E-03 | 0.140 | 5.07E-02 | 3.95E-03 | -14.8 |
| | Used as raw materials (PENRM) | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | Total (PENRT) | MJ | 28.7 | 5.68E-03 | 0.140 | 5.07E-02 | 3.95E-03 | -14.8 |
| Use of secondary material (SM) | | kg | 4.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Use of renewable secondary fuels (RSF) | | MJ | 3.56E-26 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Use of non renewable secondary fuels (NRSF) | | MJ | 4.18E-25 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Net use of fresh water (FW) | | m ³ | 8.18E-03 | 5.39E-07 | 8.94E-06 | 1.51E-05 | 1.05E-06 | -0.151 |

Note: Primary energy calculated using PCR option B.

Waste indicators

| Results per declared unit: 1 kg of product | | | | | | | |
|--|------|----------|----------|----------|----------|----------|-----------|
| Indicator | Unit | A1 – A3 | C1 | C2 | C3 | C4 | D |
| Hazardous waste disposed (HWD) | kg | 1.19E-06 | 1.84E-13 | 7.06E-12 | 7.33E-12 | 9.84E-13 | -1.11E-07 |
| Non-hazardous waste disposed (NHWD) | kg | 3.73E-02 | 8.84E-07 | 2.08E-05 | 1.39E-05 | 2.00E-02 | 0.179 |
| Radioactive waste disposed (RWD) | kg | 9.85E-04 | 7.34E-09 | 1.70E-07 | 6.38E-07 | 4.15E-08 | 1.62E-06 |

Output indicators

| Results per declared unit: 1 kg of product | | | | | | | |
|--|------|----------|----------|----------|----------|----------|----------|
| Indicator | Unit | A1 – A3 | C1 | C2 | C3 | C4 | D |
| Components for re-use (CRU) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for recycling (MFR) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.980 | 0.00E+00 | 0.00E+00 |
| Material for energy recovery (MER) | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Exported electrical energy (EEE) | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Exported thermal energy (EET) | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

Disclaimer

| ILCD classification | Indicator | Disclaimer |
|---------------------|---|------------|
| ILCD Type 1 | Global warming potential (GWP) | None |
| | Depletion potential of the stratospheric ozone layer (ODP) | None |
| | Potential incidence of disease due to PM emissions (PM) | None |
| ILCD Type 2 | Acidification potential, Accumulated Exceedance (AP) | None |
| | Eutrophication potential, Fraction of nutrients reaching freshwater end compartment (EP-freshwater) | None |
| | Eutrophication potential, Fraction of nutrients reaching marine end compartment (EP-marine) | None |
| | Eutrophication potential, Accumulated Exceedance (EP-terrestrial) | None |
| | Formation potential of tropospheric ozone (POCP) | None |
| | Potential Human exposure efficiency relative to U235 (IRP) | 1 |
| ILCD Type 3 | Abiotic depletion potential for non-fossil resources (ADP-minerals&metals) | 2 |
| | Abiotic depletion potential for fossil resources (ADP-fossil) | 2 |
| | Water (user) deprivation potential, deprivation-weighted water consumption (WDP) | 2 |
| | Potential Comparative Toxic Unit for ecosystems (ETP-fw) | 2 |
| | Potential Comparative Toxic Unit for humans (HTP-c) | 2 |
| | Potential Comparative Toxic Unit for humans (HTP-nc) | 2 |
| | Potential Soil quality index (SQP) | 2 |

Disclaimer 1 – 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.

Disclaimer 2 – 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 experience with the indicator.

Variation in environmental indicators

The table below shows the variation for modules A-C where the difference between products is greater than 10%.

| Cold rolled steel sheets and slit coils | |
|---|----------------|
| Environmental impact indicator | Difference (%) |
| GWP-biogenic | 21% |
| ODP | 43% |
| AP | 16% |
| EP-fresh | 36% |
| EP-marine | 14% |
| EP-terrest | 14% |
| POCP | 14% |
| ADP-elements | 41% |
| ADP-fossil | 16% |

5. References

- General Programme Instructions of the International EPD® System. Version 4.0
- PCR 2019:14 Construction products. Version 1.3.4 (2024-04-30)
- CEN European Committee for Standardisation (2021). EN15804:2012+A2:2019/AC:2021 (CEN 2021), Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products
- LCA for experts Software System and database for Life Cycle Engineering, sphera, Leinfelden-Echterdingen, Germany
- Hallberg, L., LCA methodology report – SSAB Blast Furnace steel, as basis for the publication of EPDs within the International EPD® System, June 2025

