GreenCoat®
– color coated steel sheets and coils

Environmental Product Declaration (EPD)
In accordance with ISO 14025 and EN 15804+A1
S-P-01922, version 1.0
UN CPC 412
GREENCOAT® IN AWARD-WINNING ARCHITECTURE
Tin House, London
Architect: Henning Stummel,
Henning Stummel Architects Ltd.

CONTENT
1. SSAB’s vision – a stronger, lighter and more sustainable world 3
2. SSAB in the circular economy 3
3. Product 4
   3.1 Technical information and application 4
   3.2 Product composition 4
   3.3 Compliance with chemical legislation 6
4. Production 7
   4.1 Production sites 7
   4.2 Labeling and packaging 7
   4.3 Sourcing and transportation 7
5. Recycling and waste processing 8
6. Information about safe use 8
   6.1 Safety 8
7. LCA information 9
8. Scope of declaration 10
9. Environmental performance 11
10. Additional information 12
11. Mandatory statements 12
12. Program-related information and verification 12
13. References 13
14. Contact information 13
Annex 1 15
1. SSAB’s vision – a stronger, lighter and more sustainable world

SSAB is a specialized global steel company driven by close relationships with our customers. SSAB develops and markets high performance steels that are either high strength or fit for purpose products designed for better performance and sustainability.

The company is a leading producer in the global market for Advanced High Strength Steels (AHSS) and Quenched & Tempered Steels (Q&T). We serve segments such as, automotive, mining and construction with strip, plate and tube products. SSAB’s steels and services help to make end products lighter and better engineered, increasing their strength and lifespan.

SSAB has a cost-efficient and flexible production system. SSAB’s production plants in Sweden, Finland and the US have an annual steel production capacity of approximately 8.8 million tonnes. In Sweden and Finland, the integrated blast furnace process is used, whereas in the US, electric arc furnaces are used in a scrap-based production process.

SSAB has been at the forefront of sustainability in many ways. With confidence deriving from our traditions, we now strive to do even more. SSAB aims to be fossil-free as a company by 2045.

SSAB’s environmental management is based on the international environmental management systems standard, ISO 14001. All production facilities within the scope of this Environmental Product Declaration have third-party ISO 14001 certification.

2. SSAB in the circular economy

The term circular economy usually is used to describe a transition from linear business models, in which products are manufactured from raw materials, used and then discarded, to circular business models, where products or parts are repaired, re-used, returned and recycled. A circular economy promotes zero waste in order to create a more sustainable world.

In addition, it supports innovative design to promote recycling, a reduction in the amount of virgin materials used, and encourages the re-use and recycling of all materials. A circular economy can be applied by adopting a lifecycle approach and measuring the social, economic and environmental impact at each stage of a product’s lifecycle, including end of life. In summary, steel products promote the core objective of a circular economy because steel can be recycled without weakening its properties.
3. Product

3.1 TECHNICAL INFORMATION AND APPLICATION

GreenCoat® color coated steel products are used in the building industry, but also in light engineering, different indoor applications and transportation. GreenCoat® products are typically highly resistant to corrosion, UV radiation and scratches. They provide builders with a lightweight material that is easy to work with even down to -15°C.

Most of our GreenCoat® products feature a Bio-based Technology (BT) coating with a substantial portion of the traditional fossil oil replaced by Swedish rapeseed oil. This patented solution reduces the environmental footprint of GreenCoat® products. Being fully Cr(VI)-free, and with its color coating, full recyclability, compliance with REACH and numerous environmental certifications, GreenCoat® stands at the forefront of sustainable building solutions.

GreenCoat® products are available in a wide variety of attractive colors and finishes. The typical thickness range is from 0.45 mm to 1.5 mm, but availability depends on the product and width concerned. All SSAB color coated products are manufactured according to EN 10169. The main products included in the color coated product portfolio are listed below.

3.1.1 COLOR COATED STEEL ROOFING PRODUCTS

- **GreenCoat Pural BT** – offers the highest level of durability with very scratch resistant and formable coating for roofing applications.
- **GreenCoat PLX Pural BT** – offers the highest level of durability for long strip roofing.
- **GreenCoat Pro BT** – a highly durable roofing product with optimized properties for tiles and profiles.
- **GreenCoat PLX Pro BT** – a unique combination of steel and coating specially developed for high-end tinsmith applications.
- **GreenCoat PLX Legacy** – a tinsmith product for old cultural historic buildings with special surface to be painted directly after installation.
- **GreenCoat Mica BT** – a roofing product with exclusive, glittery surface.
- **GreenCoat Crown BT** – a product with optimized properties for tile profiles and modular roofing. Matt version of the product has excellent color and gloss repeatability.
- **GreenCoat Cool** – a roofing product with heat reflecting properties.
- **Rough Matt Polyester** – a roofing product with rough appearance and good profiling properties.
- **Polyester** – a product used in warehouses, agricultural constructions, halls and sheds.

3.1.2 COLOR COATED STEEL FAÇADE PRODUCTS

- **GreenCoat Hiarc, GreenCoat Hiarc Max** – offer excellent weather resistance properties for superior aesthetic buildings that are built to last.
- **GreenCoat Anti-Graffiti BT** – a highly durable product from which graffiti is easily removed.
- **GreenCoat Pural Form BT** – a highly durable product for agricultural buildings, also available as double sided.

3.1.3 COLOR COATED STEEL RAINWATER SYSTEM PRODUCTS

- **GreenCoat RWS** – a double sided, high quality product for rainwater systems.

3.1.4 COLOR COATED STEEL INDOOR PRODUCTS

- **GreenCoat FoodSafe BT** – a product for food business premises.
- **Polyester Indoor** – a product with a wide range of special colors and glosses for indoor applications.
- **Epoxy** – a product with excellent adhesive bonding properties used for sandwich panels for indoor applications.
- **Laminate FoodSafe** – a product with excellent scratch resistance properties for the food industry.

Product-specific technical requirements regarding mechanical and other properties arise from national and/or international standards, such as EN 10169 or EN 10346, or customer specific standards. SSAB’s unique products also have their own specific requirements.

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

3.2 PRODUCT COMPOSITION

3.2.1 STEEL CHARACTERISTICS

The base material in color coated products is steel, which is typically coated with a zinc layer on both sides. Steel is an alloy of mainly iron and carbon, with small amounts of other alloying elements. These elements improve the chemical and physical properties of steel such as strength, ductility, and durability. The alloying elements of steel are physically bonded to the steels inherent crystalline structure. End application requirements determine the steel type: structural steels offer standardized mechanical properties according to EN 10346, while formable steels are used in deep drawing and in tinsmith applications.
3.2.2 ZINC COATING
The zinc coating (Z, 100 – 350 g/m²) is lead free and has a minimum zinc content of 99%. It protects the steel from corrosion in two ways. It is a protective layer keeping oxygen and water away from the steel, but it also acts as a cathodic protection. This means that at cut edges or in case of damages through the zinc coating, the zinc will sacrifice itself and react to form protective compounds and block further corrosion processes.

3.2.3 PRE-TREATMENT AND COLOR COATINGS
SSAB color coated products typically comprise two paint layers, on both sides of the strip, and pre-treatment. These are typically applied to zinc-coated steel in an automated process. Paint layers are cured in elevated temperatures in a controlled process. Each of the layers has its own function. The pre-treatment layer improves the corrosion resistance, but also gives good adhesion to the primer layer. The primer layer is used for corrosion protection with corrosion protective additives. Primer layer also gives a good adhesion to the top coat. The top coat type is chosen based on the end application. The top coat gives the product its color, other chosen visual effects and largely defines the overall performance of the product. Total thickness of the color coating varies between 25 – 50 µm depending on the product.

The reverse side of the sheet is typically painted with a two-layer gray reverse side coating which further enhances the corrosion resistance of the product. The reverse side coating is optimized to give a good adhesion in adhesive bonded or foam filled sandwich panels. If particular technical or aesthetic requirements are set for the reverse side, the coating can be selected accordingly. Typical overall reverse side coating thickness is 12 µm. All SSAB color coated products are Cr(VI)-free.

3.2.4 TYPICAL PRODUCT COMPOSITION
Table 1 shows as an example the composition of GreenCoat Hiarc in normal production (excluding packaging materials). This product is a typical example of a color coated product used especially within construction industry. The exact composition of steel varies according to material standards and customer requirements. This information given is based on color coated steel products produced at SSAB’s sites in both Finland and Sweden.

The values provided are based on European Standards EN 10219-1, EN 10149-2, EN 10025-2, EN 10025-3, EN 10025-4, EN 10025-6, EN 10130, EN 10268, EN10346 and EN 10169 requirements on maximum concentrations, and included in Table 1 if the maximum levels according to these standards are 0.1% by weight, or higher.

More detailed information about the composition of different steels is available from national and international standards as well as from SSAB’s website www.ssab.com.

Typical chemical contents of SSAB color coatings are shown in Table 3 (Annex 1). In the table, the weight percentage of a substance is reported if it is at least 0.1% of the product’s weight. The weight percentages have been calculated for a color coated product with 0.45 mm steel thickness with Z100 zinc coating.

### TABLE 1. EXAMPLE OF THE GREENCOAT HIARC COMPOSITION

<table>
<thead>
<tr>
<th>Material</th>
<th>Content (%) of total product weight</th>
<th>Ingredient</th>
<th>Content (%, W/W)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel Base (S280GD, 0.5 mm)</td>
<td>91.3</td>
<td>Iron (Fe)</td>
<td>&gt; 97</td>
<td>7439-89-6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Carbon (C)</td>
<td>&lt; 0.20</td>
<td>7440-44-0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Silicon (Si)</td>
<td>&lt; 0.60</td>
<td>7440-21-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Manganese (Mn)</td>
<td>&lt; 1.70</td>
<td>7439-96-5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Phosphorus (P)</td>
<td>&lt;0.10</td>
<td>N/A</td>
</tr>
<tr>
<td>Zinc Coating (Z275)</td>
<td>6.9</td>
<td>Zinc (Zn)</td>
<td>&gt; 99</td>
<td>7440-66-6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aluminum (Al)</td>
<td>&lt; 1.0</td>
<td>7429-90-5</td>
</tr>
<tr>
<td>Color Coatings</td>
<td>1.8</td>
<td>Other elements</td>
<td>100</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Remarks**
- Physical state: solid
- Odor: odorless
- Color: metallic gray
- Boiling point: 2,750°C
- Melting point: 1,450 – 1,520°C
- Steel density: 7,850 kg/m³
3.3 COMPLIANCE WITH CHEMICAL LEGISLATION

SSAB actively tracks and anticipates future changes in environmental, safety and chemical legislation and complies with valid EU chemical regulations, such as the REACH Regulation 1907/2006. Communication and cooperation throughout the supply chain plays an important role and SSAB requires full REACH compliance from its subcontractors. SSAB tracks the list of Substances of Very High Concern (SVHC) and other legislative requirements to ensure products meet legal and customer requirements. In addition, SSAB observes and complies with the requests and recommendations of many customers to withdraw products containing hazardous substances in the customer sector.

SSAB’s steel products do not contain substances of very high concern (SVHC) as defined and listed in the European Chemicals Agency (ECHA) Candidate List of substances of very high concern for Authorisation, in levels above 0.01% by weight.

Steel contains very small amounts of impurities originating from natural raw materials and not added during the steel production process. The amount of impurities in the steels is minimal and, based on knowledge of the toxicity of these substances and their metallurgical bond in the steel matrix, does not pose a risk to the environment or human health.

For the construction industry, the Environmental Product Declaration will give benefits in rating schemes, such as BREEAM, LEED and Miljöbyggnad. Additionally, there are specific tools for material evaluation, such as BASTA, Byggvarubedömningen and SundaHus, where information from this Environmental Product Declaration is needed.
4. Production

4.1 PRODUCTION SITES

SSAB color coated steel coils and sheets are manufactured at SSAB’s Hämeenlinna and Kankaanpää sites in Finland, and at Finspång site in Sweden. Metal coated and cold rolled steel strips manufactured at SSAB Hämeenlinna mill in Finland are used as the substrate for color coated steel products. Hot rolled steel typically produced at SSAB’s Raabe site in Finland is used as the substrate for metal coated and cold rolled steel. Steel production is based on the use of iron ore as a raw material. However, SSAB uses approximately 20% of scrap steel in conjunction with steel production in the Nordics. The use of raw materials and energy has been optimized in steel production.

When scrap steel is used instead of virgin raw materials in steelmaking, the carbon dioxide emissions originating in steel production decrease accordingly. Steelmaking at SSAB uses scrap material from SSAB’s own production processes and material sourced on the scrap steel market. Once steel has been made, it can be recycled without weakening its properties.

At SSAB, steelmaking processes have been continuously advanced and improved. As a result, SSAB’s blast furnaces today are among the most efficient in the world in terms of minimizing carbon dioxide emissions from steel production. Most of the energy used in ore-based steel production comes from coal, which is used as a reducing agent in ironmaking. The mineral products formed in SSAB’s iron and steel production processes and the by-products generated in the coking process are recycled as industrial raw material or material to replace virgin resources. A high percentage of the dust originating in various processes is returned to the process to reduce waste and improve material efficiency.

4.2 LABELING AND PACKAGING

SSAB color coated products are labeled to be easily and permanently identifiable and traceable. Labeling complies with standards EN 10021 and EN 10204. In addition, the reverse side is marked with a text that identifies GreenCoat® and SSAB as the original manufacturer.

The packaging and protection of our steel products is usually determined when ordering. Strap bands, wood props, corner protection and other accessories supporting packaging are used as appropriate and according to customer requirements. Paper and plastic film is usually used as the packaging material for cut lengths. The bundles are fastened with strap bands. Coils are delivered fastened with or without a base, based on the order protected by laminated plastic or cardboard, wrapping paper and plastic or metallic end rings, metallic corner protection and binding straps.

This section of the declaration is for information purposes only. The packaging materials are not included in the LCA study.

More information about the labeling and packaging can be found at www.ssab.com.

4.3 SOURCING AND TRANSPORTATION

The general terms and conditions of all new or renewed raw material sourcing contracts require compliance with SSAB’s Supplier Sustainability Policy. Ethical values, environmental concerns and energy efficiency are considered when choosing suppliers. As regards the main raw materials used in steel production, iron ore pellets are sourced from Sweden and Russia, metallurgical coal from North America, Australia and Russia, metallurgical coke from Japan, China and Poland, limestone from Sweden, Norway, France and Spain, and scrap from Sweden, Finland and Russia. Alloys are sourced from multiple origins including Brazil, Russia, China, South Korea, Chile and the US. The company’s own logistics unit is responsible for most of SSAB’s transportation of raw materials and products. Finished products are transported by sea, road or rail.

SSAB’s environmental objectives in respect of logistics are managed through a certified environmental management system. The aim is to increase the share of logistics contracts with partners who have signed up for energy efficiency agreements in the logistics and transport sector. Around 85% of SSAB’s land transportations per tonne of products are carried by a partner signatory to energy efficiency agreements. Logistics companies outside an energy efficiency agreement are regularly encouraged to sign up to one. SSAB’s international partners have certified environmental management systems. Logistics aims to optimize transport and maximize payloads and to combine transport as efficiently as possible.
5. Recycling and waste processing

Steel is a fully recyclable material and scrap steel has a strong market position: steel recovered from structures and end products at the end of their lifecycle is efficiently recycled and re-used.

No hazardous waste is formed from end products and steel does not harm the environment. According to the European Waste Catalogue, the waste code for steel products manufactured by SSAB after their useful life is 17 04 05 (iron and steel). All packaging materials for steel products can be recycled.

6. Information about safe use

Steel poses no hazards to the environment in the forms supplied. Some grades of steel contain alloying elements such as manganese, chromium, niobium, vanadium, titanium, nickel, copper and silicon. None of these substances is released under normal or reasonably foreseeable conditions of use.

Dust and vapors may form when steel is melted, welded, cut or ground (or heated to very high temperatures). Long-term exposure to high dust and vapor concentrations may affect the health, especially the lungs. The composition of dust and vapor depends on the steel grade and methods employed.

Welding must be left to trained people. Personal protective equipment must be used and sufficient ventilation must be ensured in compliance with safety legislation. Instructions on the welding of metals and metal alloys can be found on the website of, for example, the European Steel Association www.eurofer.org.

The use and handling of steel does not endanger people or the environment and there are no specific exposure limits in place for this reason. Neither have any first aid measures, measures in the event of fire or unintentional emission, or measures as regards the handling and storage of steel been specified.

Normal precautions should be taken to avoid physical injuries caused mainly by the heavy weight or sharp edges of a product. Personal protective equipment such as special gloves and eye protection must be worn.

6.1 SAFETY

- Always wear gloves and protective clothing when handling steel products.
- Be careful of sharp edges and corners.
- Always use official lifting equipment when moving steel products.
- Never use binding straps to lift a product.
- Straps under tension may cause injury when cut and the outer ring of a coil may rebound outwards.
- Never go under steel products when they are being moved.
- Make sure the securing straps are sufficiently strong and firmly attached.
- Always follow the industrial safety provisions in force and find out whether the installation site is subject to any particular safety requirements before beginning installation work.
7. LCA information

- **Functional unit / declared unit:** 1 tonne (1,000 kg) of color coated steel sheets and coils.
- **Reference service life:** Not applicable.
- The LCA is based on data from the following SSAB production sites:
  - SSAB Europe Oy, Raahe, Finland
  - SSAB Europe Oy, Hämeenlinna, Finland
  - SSAB Europe Oy, Kankaanpää, Finland
  - SSAB EMEA AB, Finspång, Sweden
- **Data quality and representativeness:** Production data have been collected by SSAB directly from the production sites and are average values for the year 2017. The data have been measured and verified internally. The data are assumed to be the most relevant according to current conditions and production practices.
- **Database(s) and LCA software used:** The World Steel Association’s 5th steel LCI dataset released in December 2018, the GaBi LCA Databases 2019 (SP39), the GaBi LCA Software (GaBi version 9).
- **Description of system boundaries:** Cradle-to-gate with options.
- **Cut-off:** The packaging material inflow is not included in the LCA. The packaging material represents less than 1% of the total inflow by mass and is therefore well below the limits given by the cut-off rules, stated in EN 15804, as well as the relevant PCR document for this EPD.
- **Allocation:** By-products such as blast furnace slag are used as input material in a number of industries, for example in road construction and as a substitute for cement. This study has used a conservative approach and considered all the environmental burdens associated with the production of the steel products and by-products as belonging to the production of the steel.
- **End-of-Life Scenario:** A recycling rate of 95% has been assumed for the steel product. That is to be seen as the proportion of the material in the product that will be recycled (or re-used) in a subsequent system. The recycling rate referring to the output of the recycling plant and all the material losses through the lifecycle have been taken into account, including material losses in the collection, sorting and recycling (or re-use) processes up to the point of final substitution. The scenario results in 5% material losses in total, considered as landfilling steel scrap.
- **Net-scrap calculation:** To some extent SSAB uses external scrap in the steel production. Therefore, this amount of scrap has been deducted from the stated recycling rate. This is done to calculate the amount of net-scrap to be credited in Module D. This is the amount of steel scrap available for the next lifecycle. The re-circulation of internal scrap has not been considered in this calculation, since it represents a closed loop inside the system boundary for the LCA.
8. Scope of declaration

The scope of this declaration is for 1 tonne of color coated steel sheets and coils from cradle to the mill gate, including end-of-life processing and recycling: Modules A1 – A3, C3 – C4 and D (according to EN 15804). Modules A4 – A5, B1 – B7 and C1 – C2 have not been included, due to the inability to predict how the material will be used following manufacture.

The system boundary applied in this study extends from Module A1, the mining of raw materials, such as iron ore and coal; Module A2, transport to and within the manufacturing site; Module A3, coke, iron and steel manufacture; ancillary service operations; hot rolling of steel products, cold rolling, metal coating, color coating and packaging for dispatch to customers at the exit gate of the manufacturing site.

The system boundary also includes manufacture of other required input materials, transport between processing operations, the production of external services such as electricity, natural gas and water, and the production of by-products within the steelmaking process. Wastes and emissions to air, land and water are also included, as are Modules C3 scrap processing, C4 disposal to landfill and D recovery for recycling.

<table>
<thead>
<tr>
<th>Raw material supply</th>
<th>Transport</th>
<th>Manufacturing</th>
<th>Transport from the gate to the site</th>
<th>Assembly</th>
<th>Use</th>
<th>Maintenance</th>
<th>Repair</th>
<th>Replacement</th>
<th>Relaucht</th>
<th>Operational energy use</th>
<th>Operational water use</th>
<th>De-construction demolition</th>
<th>Transport</th>
<th>Waste processing</th>
<th>Disposal</th>
<th>Re-use, recovery, recycling potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>X</td>
<td>X</td>
<td>MND</td>
<td>MND</td>
<td>X</td>
<td>MND</td>
<td>MND</td>
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<td>MND</td>
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<td>X</td>
<td>X</td>
<td>X</td>
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</tr>
<tr>
<td>X</td>
<td>Module declared.</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MND</td>
<td>Module not declared (such a declaration shall not be regarded as an indicator of a zero result).</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
9. Environmental performance

For SSAB, the Nordic production system should be considered as one entity. A customer order is normally not dedicated to a specific production location, since the technical specification (data sheet) is used to identify the product.

Although there is a spread larger than 10% for some indicators, it would not be meaningful to report these at site level, since the actual customer business is not conducted at site level.

In the case of color coated strip, mainly the ODP indicator differs, which can be explained by differences in the process chemicals used, rather than the performance of the sites per se. Tables 2a – 2c show the results of the lifecycle assessment.

### TABLE 2A. POTENTIAL ENVIRONMENTAL IMPACT PER 1,000 KG OF COLOR COATED STEEL SHEETS AND COILS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>A1-A3</th>
<th>C3</th>
<th>C4</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global warming potential (GWP)</td>
<td>kg CO₂ equiv.</td>
<td>2.63E+03</td>
<td>2.49E+00</td>
<td>7.44E-01</td>
<td>-1.48E+03</td>
</tr>
<tr>
<td>Eutrophication potential (EP)</td>
<td>kg (PO₄)₃⁻ equiv.</td>
<td>6.41E-01</td>
<td>4.22E-03</td>
<td>5.00E-04</td>
<td>-2.17E-01</td>
</tr>
<tr>
<td>Acidification potential (AP)</td>
<td>kg SO₂ equiv.</td>
<td>5.83E+00</td>
<td>1.76E-02</td>
<td>4.42E-03</td>
<td>-2.93E+00</td>
</tr>
<tr>
<td>Photo-oxidant formation potential (POCP)</td>
<td>kg ethene equiv.</td>
<td>5.72E-01</td>
<td>1.95E-03</td>
<td>3.42E-04</td>
<td>-6.86E-01</td>
</tr>
<tr>
<td>Ozone Layer Depletion Potential (ODP)</td>
<td>kg CFC11 equiv.</td>
<td>2.07E-08</td>
<td>8.13E-15</td>
<td>4.32E-15</td>
<td>8.29E-06</td>
</tr>
<tr>
<td>Abiotic depletion potential: fossil (ADP-fossil)</td>
<td>MJ, net calorific value</td>
<td>3.17E+04</td>
<td>4.83E+01</td>
<td>1.04E+01</td>
<td>-1.44E+04</td>
</tr>
<tr>
<td>Abiotic depletion potential: elements (ADP-elements)</td>
<td>kg Sb equiv.</td>
<td>1.75E-01</td>
<td>2.80E-06</td>
<td>7.41E-08</td>
<td>-4.56E-03</td>
</tr>
</tbody>
</table>

### TABLE 2B. USE OF RESOURCES PER 1,000 KG OF COLOR COATED STEEL SHEETS AND COILS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>A1-A3</th>
<th>C3</th>
<th>C4</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renewable primary energy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Used as energy carrier</td>
<td>MJ, net calorific value</td>
<td>2.28E+03</td>
<td>3.56E+00</td>
<td>1.37E+00</td>
<td>9.56E+02</td>
</tr>
<tr>
<td>Used as raw materials</td>
<td>MJ, net calorific value</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>MJ, net calorific value</td>
<td>2.28E+03</td>
<td>3.56E+00</td>
<td>1.37E+00</td>
<td>9.56E+02</td>
</tr>
<tr>
<td>Non-renewable primary energy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Used as energy carrier</td>
<td>MJ, net calorific value</td>
<td>3.34E+04</td>
<td>5.01E+01</td>
<td>1.08E+01</td>
<td>-1.39E+04</td>
</tr>
<tr>
<td>Used as raw materials</td>
<td>MJ, net calorific value</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>MJ, net calorific value</td>
<td>3.34E+04</td>
<td>5.01E+01</td>
<td>1.08E+01</td>
<td>-1.39E+04</td>
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<td>Secondary material</td>
<td>kg</td>
<td>26</td>
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<td>-</td>
<td>-</td>
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<td>Net use of fresh water</td>
<td>m³</td>
<td>1.48E+00</td>
<td>1.49E-02</td>
<td>2.72E-03</td>
<td>1.99E+00</td>
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### TABLE 2C. WASTE PRODUCTION PER 1,000 KG OF COLOR COATED STEEL SHEETS AND COILS

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<th>Parameter</th>
<th>Unit</th>
<th>A1-A3</th>
<th>C3</th>
<th>C4</th>
<th>D</th>
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<td>Waste, hazardous</td>
<td>kg</td>
<td>6.44E+01</td>
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<td>1.84E-07</td>
<td>-9.72E-04</td>
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<td>Waste, non-hazardous</td>
<td>kg</td>
<td>7.80E+01</td>
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<td>1.60E+02</td>
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<td>Waste, radioactive</td>
<td>kg</td>
<td>6.81E-01</td>
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10. Additional information

Steel is 100% recyclable and its unique properties mean it can be recycled without loss of properties or performance.

11. Mandatory statements

- The EPD for construction products may not be comparable if they do not comply with EN 15804.
- EPDs within the same product category but from different programs or utilizing different PCRs may not be comparable.

12. Program-related information and verification

<table>
<thead>
<tr>
<th>Program</th>
<th>The International EPD® System. EPD International AB. Box 210 60, SE-100 31 Stockholm, Sweden. <a href="http://www.environdec.com">www.environdec.com</a></th>
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<tbody>
<tr>
<td>EPD registration number</td>
<td>S-P-01922</td>
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<td>2020-03-31</td>
</tr>
<tr>
<td>Valid until</td>
<td>2025-03-30</td>
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<td>Product group classification</td>
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<tr>
<td>Geographical scope</td>
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<tr>
<td>Core product category rules (c-PCR)</td>
<td>CEN standard EN 15804+A1 served as the core PCR.</td>
</tr>
<tr>
<td>PCR review was conducted by</td>
<td>The Technical Committee of the International EPD® System. Chair: Massimo Marino. Contact via <a href="mailto:info@environdec.com">info@environdec.com</a></td>
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<tr>
<td>Independent verification of the declaration and data, according to ISO 14025:2006:</td>
<td>EPD Process Certification (internal) EPD Verification (external)</td>
</tr>
<tr>
<td>Third party verifier</td>
<td>Carl-Otto Nevén NEVÉN Miljökonsult</td>
</tr>
<tr>
<td>Accredited or approved by</td>
<td>The International EPD® System.</td>
</tr>
</tbody>
</table>
13. References

- ISO 14025:2006 Environmental labels and declarations — Type III environmental declarations — Principles and procedures.
- General Programme Instructions of the International EPD® System. Version 3.01.
- World Steel Association Life Cycle Inventory study report, 2018 data release. This study report corresponds to the steel LCI data released in December 2018 for 17 products. This is the 5th worldsteel LCI study and has been carried out in accordance with the worldsteel LCI methodology report.
- The GaBi LCA Databases 2019 (SP39).
- The GaBi LCA Software (GaBi version 9).
- LCA methodology report — SSAB steel products EPDs, as the basis for the publication of EPDs within The International EPD® System, IVL Report U 6256, 2020.

14. Contact information

| EPD owner         | SSAB EMEA AB  
|                   | SE-781 84 Borlänge  
|                   | Sweden  
|                   | www.ssab.com  
|                   | Jonas Larsson  
| LCA author:       | IVL Swedish Environmental Research Institute  
|                   | Valhallavägen 81  
|                   | 114 27 Stockholm  
|                   | Sweden  
|                   | www.ivl.se  
|                   | Elisabeth Hallberg  
| Program operator  | EPD International AB  
|                   | info@environdec.com  
|
GREENCOAT® PRODUCTS OFFER A SUBSTANTIAL PORTION OF SWEDISH RAPESEED OIL IN THE COATING.
TYPICAL CHEMICAL CONTENT OF COLOR COATINGS (= CURED PAINT COATINGS OR GLUED LAMINATE FOIL).
Weights are calculated with 0.45 mm steel with zinc coating Z100.

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<th>Min [wt%]</th>
<th>Max [wt%]</th>
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* Substance appears in the reverse side coating.
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* Substance appears in the reverse side coating.
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<th>Substance content</th>
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<th>Max [wt%]</th>
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SSAB has manufactured products for the building industry for more than 50 years and is the pioneer and innovator of sustainable color coated steel products offering Swedish rapeseed oil in the coating. This unique, patented solution reduces the environmental footprint of GreenCoat® products significantly and makes the GreenCoat® color coated steel portfolio the market’s greenest offering for roofs, façades and rainwater systems.

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GreenCoat® is available in

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SSAB
SE-781 84 Borlänge
Sweden
T +46 243 700 00
F +46 243 720 00
greencoat@ssab.com
samples.greencoat@ssab.com

SSAB Europe Oy
Hervanta 420
FIN-13300 Hämeenlinna
Finland
T +358 20 59 11
F +358 20 59 25080
greencoat@ssab.com
samples.greencoat@ssab.com