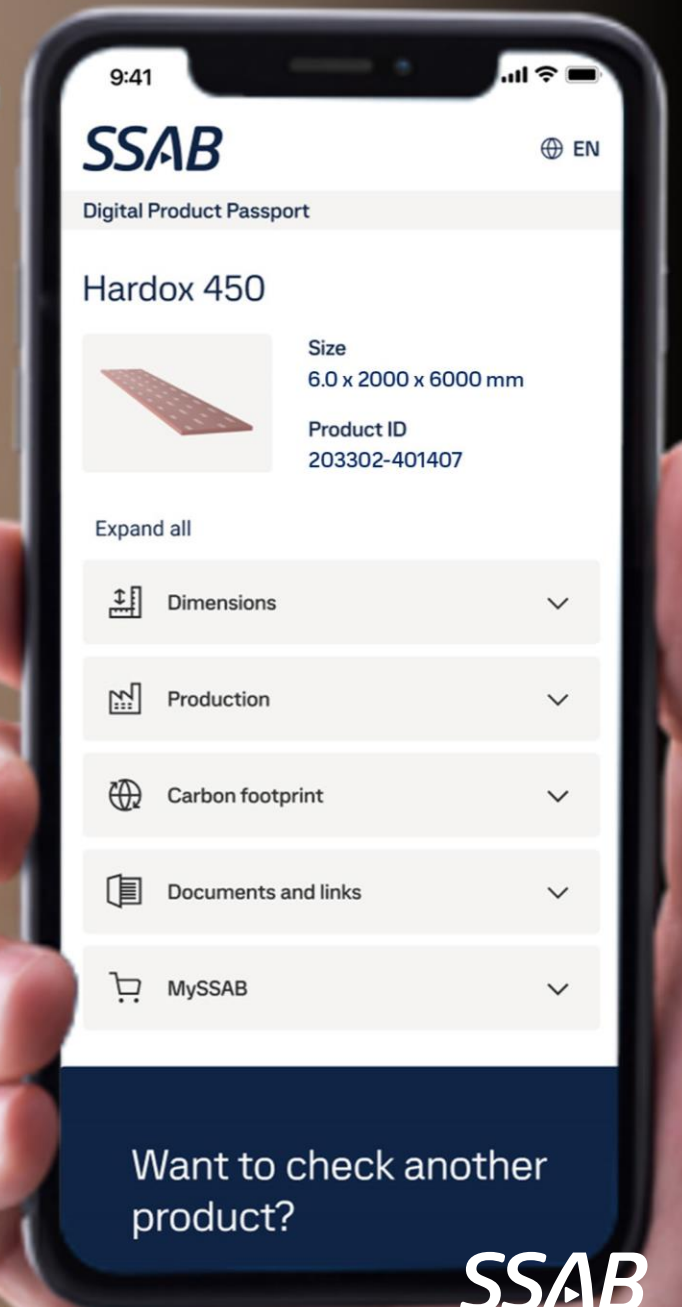


Digital Product Passport

Sandra Ahlstrand

21/5-2026

SBI:s årsmöte



Digital Product Passport



What is it?



When will it come?



What is the customer value?



The demonstrator



Want to learn more?



Questions and comments

1

What is it?

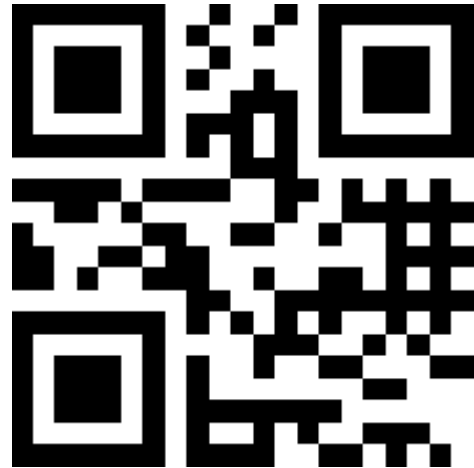
What is a Digital Product Passport?

... it's a tool for **collecting and sharing product data** throughout its entire lifecycle

... it's a **digital twin** of a physical product

... it be **mandatory** for almost all* products sold on the European market

... It can be accessed by **scanning QR** code on the product



Simply put:
All products will have a QR code. When scanning, you get all product information.

What products are subject to a DPP?



Batteries

Battery Regulation (EU) 2023/1542. EV batteries, industrial rechargeable batteries >2 kWh, and light means of transport (LMT) batteries. Delegated acts 2025.

Textiles, steel, and tyres...

Iron and steel products, aluminium, tyres, furniture, mattresses, detergents, paints, lubricants, chemicals, and other electronics. Delegated acts 2026–2030.

Energy-related products

35 products already regulated by the previous directive for energy-related products Ecodesign Directive 2009/125/EC. Delegated acts 2026–2030.

Construction

Construction Products Regulation (**CPR**) – DPP for construction products. Construction Products Regulation (EU) 2024/3110. feasibility study for the CPR DPP system was published in 2025; the actual legal acts will follow.

Vehicles

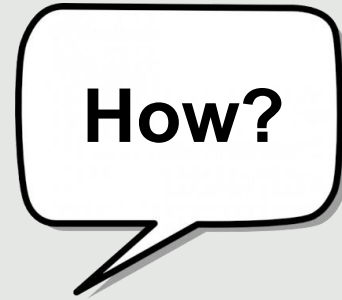
Separate system called Digital Vehicle Passport (DVP) or Circular Vehicle Passport (**CVP**). Expected to enter into force in 2031.

Food, medicine and plants

Food, Feed, Medicine, Veterinary medicine, food and plants are not covered by ESPR, because its ecodesign requirements (like durability and reparability) are not broadly applicable. However, packaging for food will be in scope for DPP.

SSAB customers

Regulations



Standards

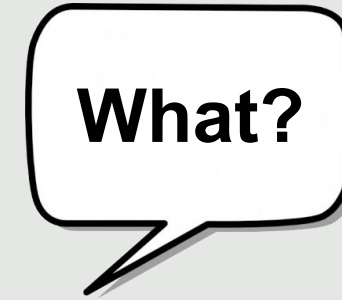
Define how content is structured

Technical best-practice

Cross-sector interoperability

Written by experts
(CEN/CENELEC/ETSI)

To be published May 2026



Delegated Acts

Define what content is mandatory

Legal obligation

Product-group specific

Written by the European Commission

To be published 2027-2030

The standards

prEN 18219	prEN 18220	prEN 18239	prEN 18223	prEN 18216	prEN 18221	prEN 18246	prEN 18222
1 Unique identifiers	2 Data carriers	3 Access rights	4 System inter-operability	5 Data exchange protocols	6 Data storage	7 Data authentication	8 APIs
Company Facility Model Batch Product	QR code RFID Where?	Public data Roles Security Confidentiality	Naming Data models Integration	Data format Security Access control	Archiving Backup Persistence	Verification Reliability Integrity Software	System-to-system interface Methods Specs

To be published in May 2026

What is included in a delegated act?



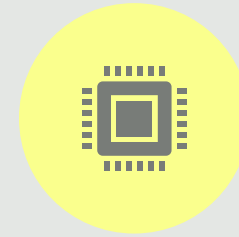
Which **product groups** are subject



The mandatory **data fields**



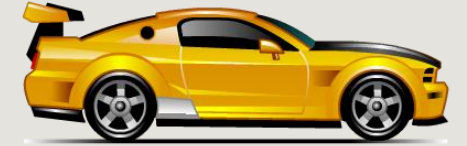
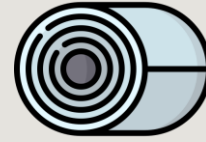
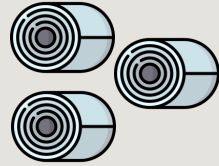
The **level of granularity**



The product specific **IT solutions**



The **transition and compliance period**



Raw material

Steel products

Individual product

Component

Final product



DPP



DPP



DPP

Three answers

1. What is a steel product?

When you start to machine, bend and weld, the piece will not be considered as a steel product anymore, but a component or a new product. Steel products are listed in CN 72 (EU's Common Customs Tariff codes).

2. When will my product be defined in the delegated acts?

The short answer is between 2027 and 2030. If it is not mentioned in the lists so far, probably in the latter part.

3. Could I just forward SSAB's digital product passport instead of making my own?

No. The one selling the product on the market is the issuer of the product passport. But you can utilize all the data from SSAB and just add additional material, energy, emissions and documents.



Do you
want to
test?



<https://batterypassport.volvocars.com/0SJPE510000006E5E0000005>

VOLVO

Battery passport

0SJPE510000006E5E0000005

Data available on this passport:

- ✓ Battery specifications
- ✓ Battery life-cycle information

Battery characteristics >

Manufacturer information >

Battery materials >

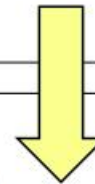
Instruction for circularity >

Carbon footprint >

Carbon footprint

Battery carbon footprint

0.34 kg CO₂e/kWh provided during service life of 160000 km



The Significance of Volvo's Battery Passport

Volvo's initiative precedes the European Union's mandate, which will require battery passports for all EVs sold in the EU starting February 2027. These passports will need to show the composition of batteries, including the origin of key materials, their carbon footprint, and recycled content. By introducing this passport nearly three years before the regulations come into effect, Volvo demonstrates its leadership and dedication to transparency.

SSAB

Volvo is the First Car with a Digital Product Passport

By Boris Motusic • June 6, 2024



Owners can access a simplified version of the passport using a QR code on the inside of the driver's door, while a more comprehensive version will be provided to regulators.

Presentation Title

<https://chargedevs.com/newswire/volvo-issues-ev-battery-passport-3-years-ahead-of-eu-requirements/>

2

When will
it come?

What products are subject to a DPP?



Textiles, steel,
and tyres

Iron and steel products, aluminium, tyres, furniture, mattresses, detergents, paints, lubricants, chemicals, and other electronics. Delegated acts 2027–2030.

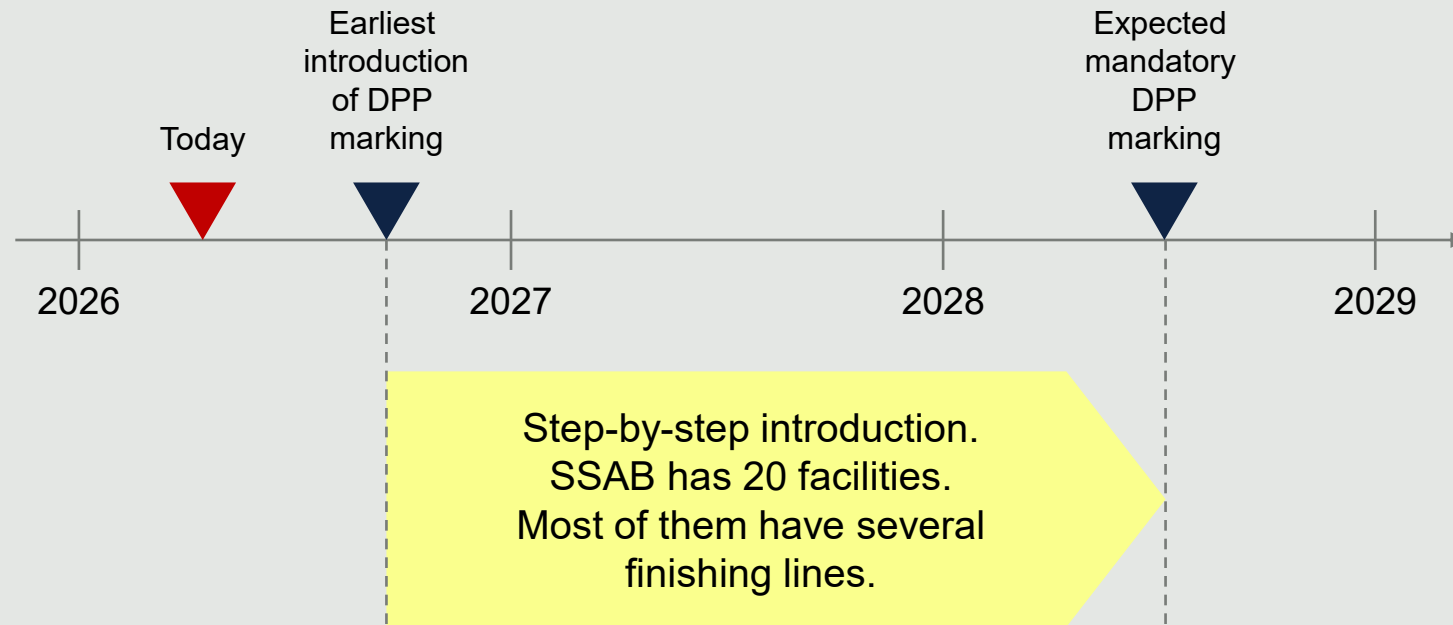
Delegated act	To be published	Required compliance	Sources
Textiles & Footwear	2026	+18 months	1, 2, 3
Iron and steel products	End of 2026	+18 months	1, 2, 4, 7
Aluminium	2027	+18 months	4
Tyres	2027	+18 months	4
Furniture	2028	+18 months	4
Mattresses	2029	+18 months	4

Not specified: Detergents, Paints, Lubricants, Chemicals, Energy-related products, ICT & other electronics. Expect delegated acts **between 2027–2030**. Source: 5.

Sources:

- 1) Mercell. A Supplier's Guide to the EU Digital Product Passport: Ensuring Sustainable Compliance. <https://info.mercell.com/en/blog/a-supplier-s-guide-to-the-eu-digital-product-passport>. Accessed Date 2025-11-13.
- 2) Eura AG. Digital Product Passport & ESPR: What businesses can expect. 2025-06-08. <https://www.eura-ag.com/en/blog/digital-product-passport-espr-what-businesses-can-expect>. Accessed Date 2025-11-13.
- 3) Trustrace. 2025-03-20. ESPR Delegated Acts for DPP for Textiles and Footwear. <https://trustrace.com/knowledge-hub/espr-delegated-acts-for-textiles-and-footwear-digital-product-passports-dpp>. Accessed Date 2025-11-13.
- 4) Intereconomics. 2025. <https://www.intereconomics.eu/contents/year/2025/number/3/article/digital-product-passport-finding-the-right-balance-between-transparency-for-circularity-and-added-red-tape.html>. Accessed Date 2025-11-13.
- 5) Fiware. New Standard Released: DIN DKE SPEC 99100 for the EU Battery Passport. 2025-01-15. <https://www.fiware.org/2025/01/15/new-standard-released-din-dke-spec-99100-for-the-eu-battery-passport/>. Accessed Date 2025-11-13.
- 6) OneClickLCA. ESPR working plan: Key products, timelines, and what manufacturers must know. 2025-09-15. <https://oneclicklca.com/en/resources/articles/first-espr-working-plan>. Accessed Date 2025-11-13.
- 7) Eurofer. ESPR Preparation study – Iron and Steel Products. 2026-01-21.

SSAB timeline



3 What is the customer value?

Compliance

Digital product passports will be mandatory
for all products put on the European market

(except for food, feed, medicine, veterinary medicine and plants)

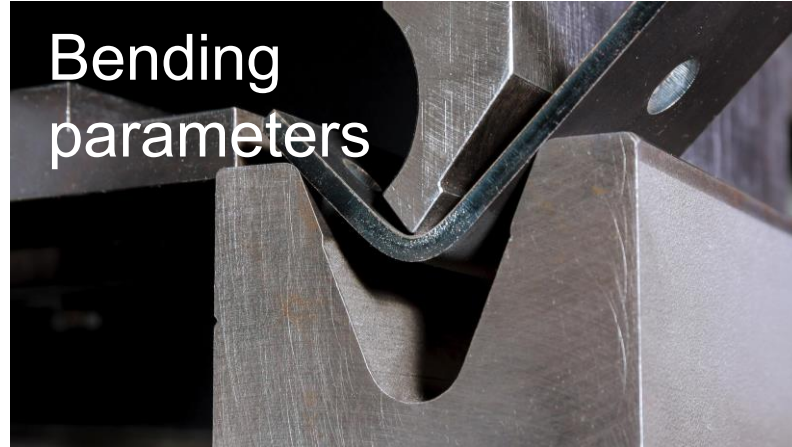
SSAB

More than compliance

The customer value is access to data.
Not just the mandatory data.
But every relevant data.



Smarter processing and design with on-line data

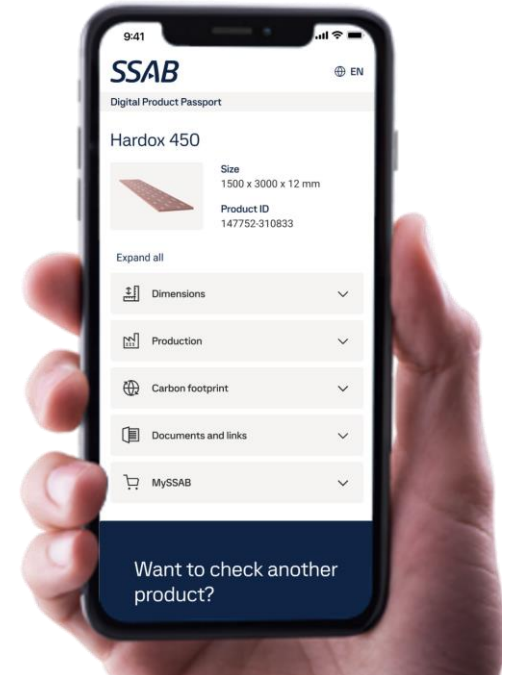
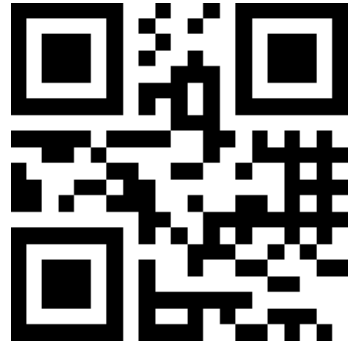


Less administration

- No papers
- No files
- No personal storing
- Always available

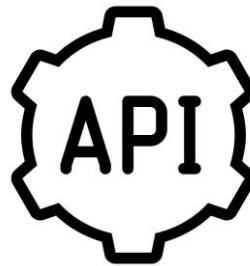
Scanning

QR code on product



Direct data transfer

SSAB



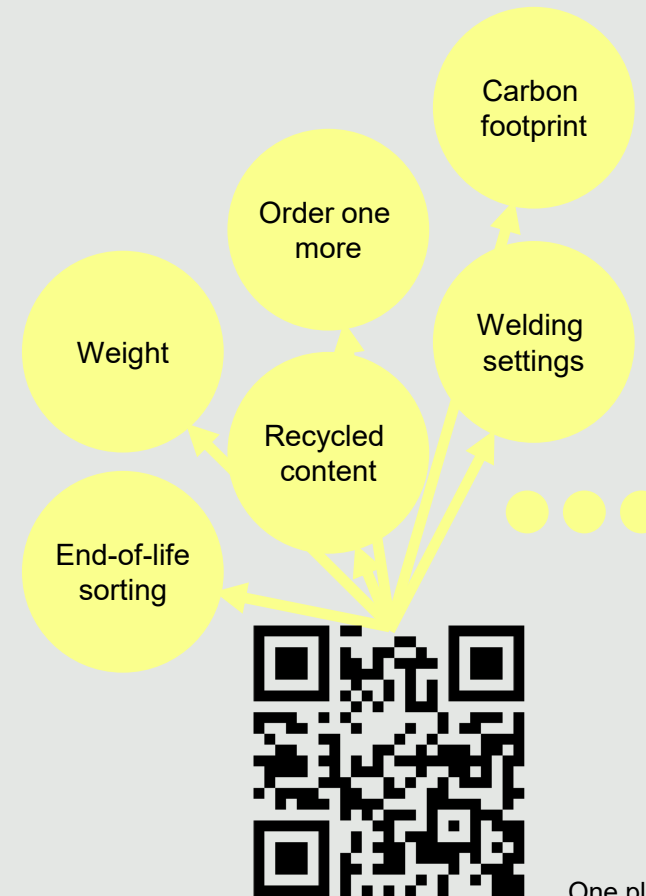
Customer



Why DPP?

- To use DPP as a **customer value platform**
- **One place** for everything
- The first industry standard for **data interoperability**

- Not because it will be mandatory




4




The demonstrator

203302-401407



HARDOX 450 ZERO
6000-2000-6.0

←  955915

9:41   

SSAB

EN











Digital Product Passport

Hardox 450

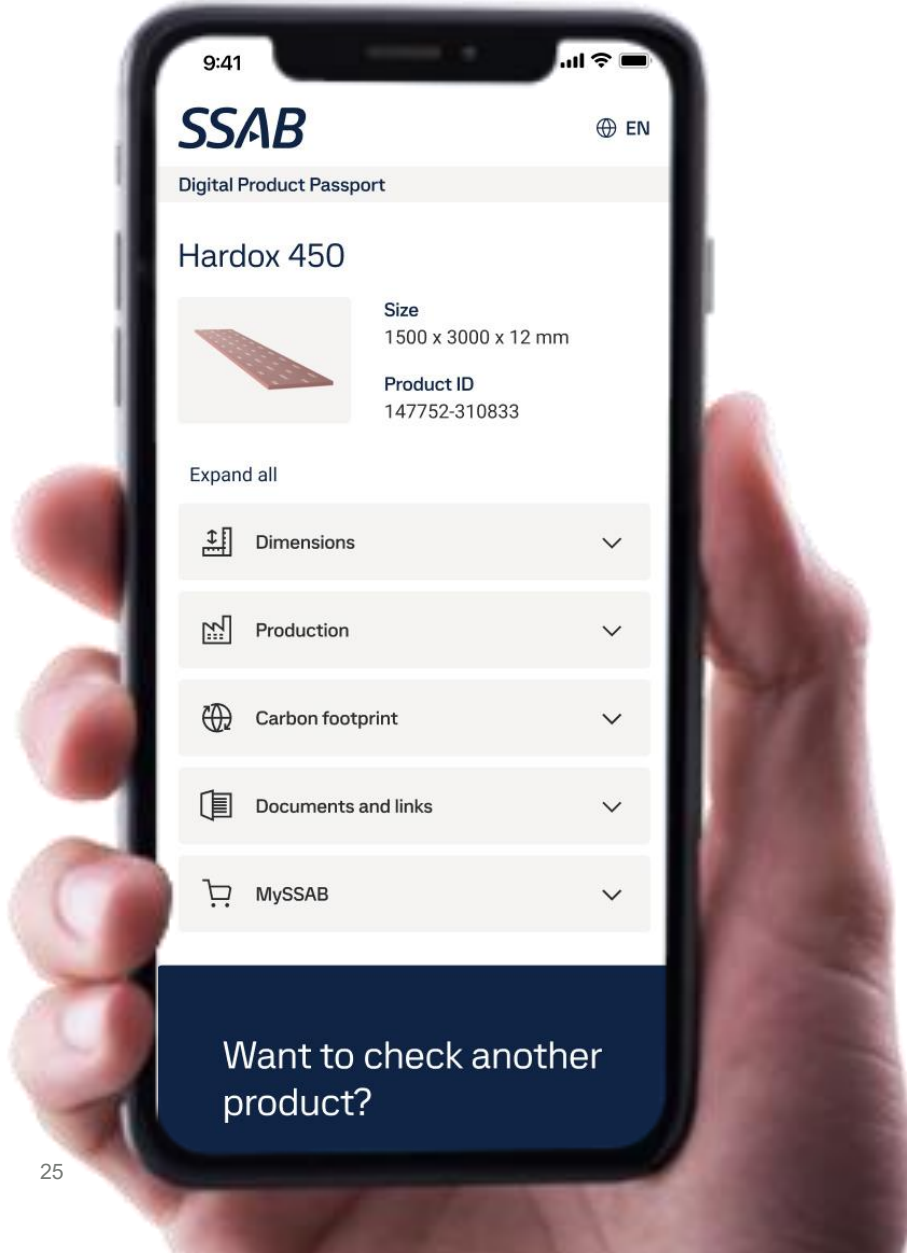
Size
6.0 x 2000 x 6000 mm

Product ID
203302-401407

Expand all

-  Dimensions 
-  Production 
-  Carbon footprint 
-  Documents and links 
-  MySSAB 

Want to check another product?

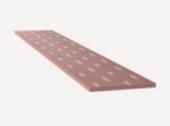


9:41 EN

SSAB

Digital Product Passport

Hardox 450

 Size: 1500 x 3000 x 12 mm
Product ID: 147752-310833

Expand all


- Dimensions
- Production
- Carbon footprint
- Documents and links
- MySSAB

Want to check another product?


Scan another QR code




Collapse all

 Dimensions


Length: 3000 mm
Width: 1500 mm
Thickness: 12 mm
Weight: 424 theor. kg

 Production


Producer: SSAB EMEA AB
VAT ID: SE556313793301
DUNS ID: SE355895582
Manufacturing date

 Carbon footprint

Global warming potential (GWP) A1-A3 based on Environmental Product Declaration (EPD)
1149 kg CO₂e
2.71 kg CO₂e/kg
[Environmental Product Declaration](#)

 Documents and links

[Data sheet](#)
[Environmental Product Declaration](#)
[How to weld](#)
[How to machine](#)
[How to bend](#)
[How to cut](#)

 MySSAB

[Order documents](#)
[Certificate](#)
[Reordering](#)

5

Want to learn
more?

Let's meet!

- How do I prepare for DPP?
- When for my products?
- What data can SSAB provide?
- What data do I need?
- Who need to be involved?
- What happens if I do not have a DPP?



Contact us to learn more



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Sandra Ahlstrand

Digital Developer



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6

Questions and comments