

Certificate of conformity

In a validation audit, the organisation has

HUGO VOGELSANG GmbH & Co. KG



presented for the product group

1 tonne (1,000 kg) cold-rolled strip (semi-finished product)

a compliant calculation methodology of product carbon footprints based on the data of the sites listed in the annex developed according to the requirements of the standards:

DIN EN ISO 14067

February 2019 edition

**GHG Protocol - Product Life Cycle Accounting
& Reporting Standard**

September 2011 edition

The validation was carried out in accordance with the requirements of ISO 14064-3:2019-04.

The accounting tool "Standardfertigung Werk100 2023-01-31.xlsx" with the status as of 31/01/2023 fulfils all the requirements of the accounting system for the determination of a complete product carbon footprint according to the cradle-to-gate accounting approach in accordance with the above-mentioned standards. The determination methodology includes the following life cycle stages:

Raw material extraction, pre-production, upstream transport, production

The emission factors used for the calculation were taken from published information or credible sources. The survey methodology was checked for suitability and plausibility.

The determination of the specific product carbon footprints and the correct application of the determination methodology is the responsibility of the organisation mentioned above.

The basis of the certificate is the test report with the number C-22-24926.

Berlin, 09/03/2023

Handwritten signature of Prof. Dr.-Ing. Jan Uwe Lieback in black ink.

Prof. Dr.-Ing. Jan Uwe Lieback
Managing Director

Handwritten signature of David Kroll in black ink.

David Kroll
Technical Head of the Verification Body

No. C-22-24926

Annex to the certificate of conformity C-22-24926

For the reporting year 2021, this results in a volume-weighted average value of 2,636 kg CO₂e/t cold-rolled strip.

The methodology for determining the organisation's product carbon footprint is based on data from the following locations:

No.	Location	Address
1	HUGO VOGELSANG GmbH & Co. KG	Alemannenweg 29, 58119 Hagen, Germany
2	HUGO VOGELSANG GmbH & Co. KG	Alemannenweg 32, 58119 Hagen, Germany
3	HUGO VOGELSANG GmbH & Co. KG	Im Klosterkamp 16, 58119 Hagen, Germany

Berlin, 09/03/2023

Prof. Dr.-Ing. Jan Uwe Lieback
Managing Director

David Kroll
Technical Head of the Verification Body