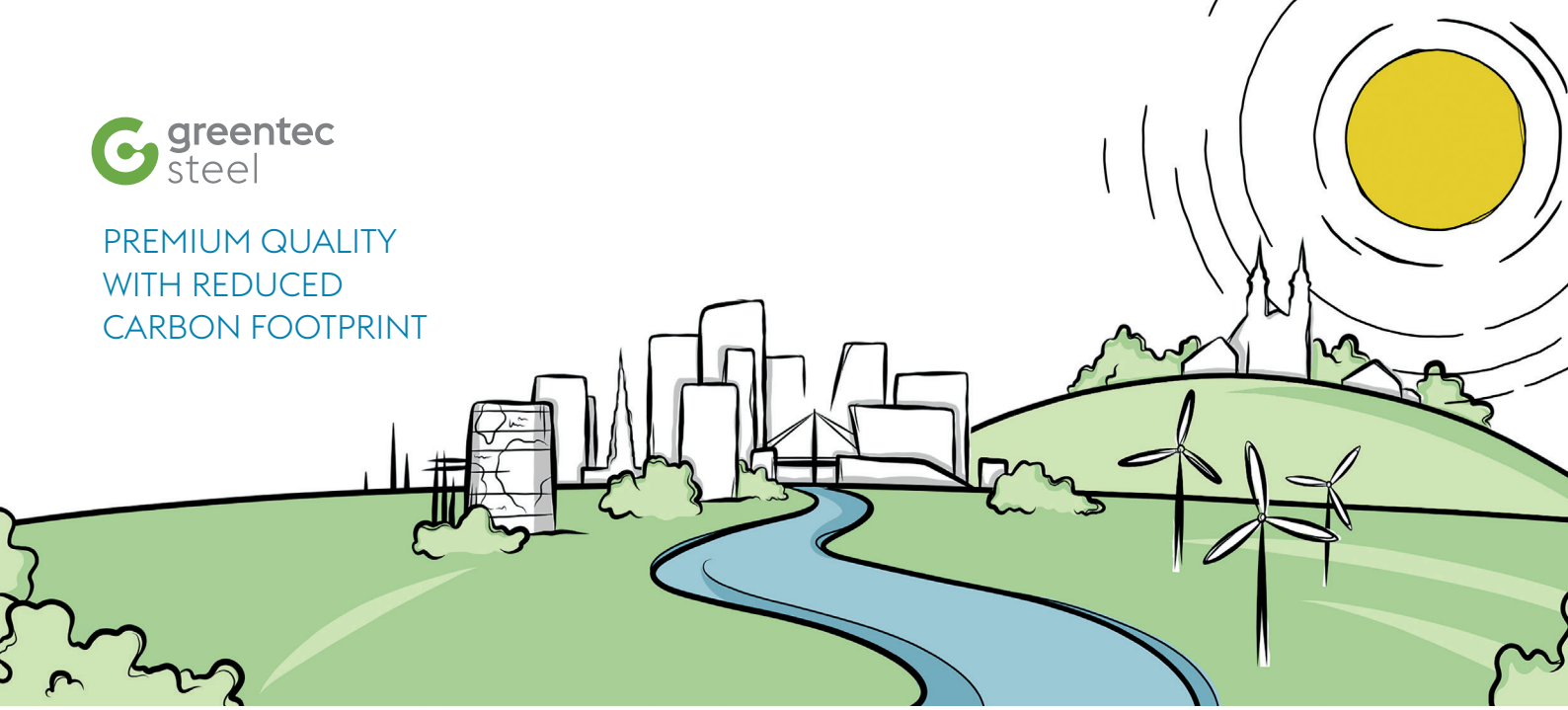
greentec steel

PREMIUM QUALITY
WITH REDUCED
CARBON FOOTPRINT



greentec steel Edition clad

Sustainable voestalpine premium quality with a reduced carbon footprint

Up to ten percent of the carbon emissions at the Linz site are avoided through process-optimized operation in the production of the greentec steel Edition.
Using an allocation model, these saved emissions are allocated to the flat steel products supplied by the voestalpine Steel Division.
The material and processing properties of the steel are not affected by the carbon-reduced production route.
Each high-quality voestalpine steel product is available with a reduced carbon footprint and its unique profile of benefits.

Convincing advantages

- Reduced product carbon footprint through real CO_2 savings
- Reduced Scope 3 emissions at the customer
- Transparency through an independently-validated allocation model
- Unchanged range of grades and dimensions in proven voestalpine premium quality
- No change in material and processing properties because the chemical analysis and mechanical profiles remain unchanged

voestalpine Steel Division
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CO_2 footprint of clad plates

The CO_2 footprint of clad plates is highly dependent on the type of cladding material and the ratio between the clad layer and the base material. Therefore, each project is calculated individually to ensure the respective value.

The following table provides an illustrative overview for a cladding ratio of 22+3 mm:

Cladding ratio 22+3 22mm of base material + 3mm clad material	Carbon footprint or global warming potential [kg CO_2e per kg of steel]*		
Product	Standard value according EPD	greentec steel Edition clad	greentec steel Edition clad max
Carbon steel + austenitic stainless steel e.g. 316L (1.4404)	3.26	2.93	1.43
Carbon steel + ferritic stainless steel 410S (1.4000)	2.98	2.68	1.15
Carbon steel + Alloy 825 (2.4858)	4.57	4.11	2.74
Carbon steel + Alloy 625 (2.4856)	5.20	4.68	3.37
Carbon steel + copper (2.0070)	3.61	3.25	1.78

* per EN 15804+A2 (EPD methodology) cradle to gate, upon customer request also possible per worldsteel CML 2001-2016 (system expansion).

greentec steel Edition clad
10% reduction of CO_2 emissions compared to the conventional production process.

greentec steel Edition clad max
Represents the maximum possible reduction using the allocation model.

Method of calculation
Determination of carbon footprint (cradle to gate)
- Based on EN 15804+A2 (Environmental Product Declaration, EPD)
- Method pursuant to worldsteel CML 2001-2016 (upon request)

Real
- Physical CO_2 savings in the steelmaking process
- Use of purchased green electric power

Transparent
Traceable savings through CO_2 optimization measures implemented in the steelmaking process

Verified
CO_2-savings verified by external and independent agency (LRQA) based on EN-ISO 14064-2

More sustainability
- Utilization of environmentally friendly transport modes and routes
- Sustainable and high-precision packaging

Additional information and downloads
voestalpine.com/stella/en

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