

A close-up photograph of several vertical steel beams. The joints between the beams are heavily corroded, showing dark brown rust. The background is blurred, showing more of the same structure.

ecoZINQ[®]
protects steel
and environment

-43 % CO₂-Emissions

ecoZINQ sets the standard
for CO₂-footprint

► Features

> Corrosion Protection

Hot-dip galvanizing in accordance with DIN EN ISO 1461/DIN EN ISO 14713, premium quality, maximum cost-effectiveness thanks to a long service life, and the highest mechanical strength during installation and use

> Technical Specifications

Optimal appearance and performance thanks to uniform layer thicknesses and optimized coatability

> Resource Efficiency

Reduced zinc consumption through optimized alloys and improved zinc bath management, as well as the use of energy-efficient plant and process technology as part of the Low-Carbon ZINQ program; exclusive use of CO₂-reduced primary zinc produced using renewable energy

> Resource Effectiveness

Environmentally friendly and innovative surfaces and processes are Cradle to Cradle Certified® and documented with circular product data sheets (PCDS) in accordance with ISO 59040

> Material Health

Use of materials and raw materials that are circular in nature and free of microplastics—safe for people and the environment. Cradle to Cradle Certified® to Material Health Standard

> Quality

Manufactured in accordance with the certified ZMS (ZINQ Management System) in state-of-the-art facilities with continuous process control (ISO 9001, ISO 14001, ISO 50001, ISO 45001, and DAST 022)

> ZINQ 360 -

Additional Services from A to ZINQ

From design consulting to warehousing and inventory management, through to comprehensive transportation, contract, and process logistics, as well as contract manufacturing and assembly services, and digital marking, automation, post-processing, and finishing systems

ZINQ coatings provide reliable and long-lasting protection against corrosion for steel. ecoZINQ also protects the environment: ecoZINQ generates 43% fewer CO₂ emissions than conventional hot-dip galvanized coatings that comply with the DIN EN ISO 1461 standard. This means that ecoZINQ currently has the lowest CO₂ footprint in the industry, and this can be verifiably demonstrated. The CO₂ footprint and the positive environmental impacts of ecoZINQ have been independently verified by a third party and are specifically documented in an Environmental Product Declaration (EPD) in accordance with EN 15804. This makes ecoZINQ the only coating with a third-party-validated CO₂ footprint (PCF). For example, every metric ton of steel protected from corrosion with ecoZINQ saves 185 kg of CO₂ compared to high-quality coating systems.

ecoZINQ combines an unmatched carbon footprint with the familiar quality of the industry standard, duroZINQ. Low-carbon coatings such as duroZINQ already significantly reduce the product-related carbon footprint compared to the industry standard—across the entire product life cycle. The ecoZINQ coating significantly surpasses this performance. This is because for ecoZINQ, we use exclusively CO₂-reduced primary zinc produced from renewable energy sources and an increasing amount of low-CO₂ recycled zinc of primary quality—thus further reducing ecoZINQ's carbon product footprint and outperforming all other hot-dip galvanized coatings in accordance with DIN EN ISO 1461.

ecoZINQ thus offers the highest level of eco-quality without compromising product quality: Like all ZINQ hot-dip galvanized surfaces, ecoZINQ is Cradle to Cradle Certified® and, as a material-safe product, can be fully recycled within closed material cycles. This circular quality is documented in a Product Circularity Data Sheet (PCDS), which records all environmental impacts throughout the product's entire life cycle.

The specific CO₂ savings achieved by choosing ecoZINQ as a durable coating are credited to ZINQ customers as carbon credits on their invoices. Carbon credits therefore already serve as the basis for reimbursements—in the event that CO₂ prices are used in the future to calculate direct and indirect environmental costs over the entire life cycle of products.

This makes ecoZINQ ideal for environmentally conscious customers who want to sustainably reduce the carbon footprint of their hot-dip galvanized steel products. And it's good for the climate, too: the more ecoZINQ used, the greater the CO₂ savings!

ZINQ[®]

ZINQ Technologie GmbH
An den Schleusen 6
D-45881 Gelsenkirchen
planet@zinq.com
Tel.: +49 209 9403-400

zinq.com