

Sustainable steel galvanization meets architecture: the new pier in Haffkrug

The new Haffkrug pier has been stretching across the waters of Lübeck Bay since the end of September 2024. With a length of 230 meters, it not only surpasses the old pier that was demolished in 2022, but also sets new standards in terms of resilience and durability—as studies on similar projects have shown. But behind its elegant appearance lies a challenging construction project that must withstand the harsh conditions of the coast.

“The salty air and aggressive seawater pose particular challenges for the materials used,” emphasizes Maik Riedel, Key Account Manager at surface specialist ZINQ. “That’s why our duroZINQ piece galvanizing came into play in this project. It not only reliably protects the steel structure from corrosion, but also minimizes maintenance costs for decades.” Stefan Milde, plant manager at the ZINQ site in Landsberg/Halle, adds: “We were dealing with corrosion protection requirement C5 here - that means the highest possible protection.

This ensures that the steel structures remain stable for many years, even under extreme conditions—whether on the coast or in industrial areas with high levels of air pollution.

Collaboration at the highest level

Construction of the new Haffkrug pier began in the winter of 2023. A double-pointed pier head with a platform for passenger ships was to mark the seaward end of the bridge. Between August 2023 and July 2024, over 230 tons of steel structures were immersed in liquid hot zinc at ZINQ in Landsberg/Halle. The components, which were then sustainably protected against corrosion, were transported directly to the beach construction site. Marek Trznadel, Managing Director of Christmann & Pfeifer Industriebau GmbH & Co. KG., praises the close and smooth cooperation: “As always, the cooperation with ZINQ was based on partnership and reliability. The smooth interaction of all trades on site was particularly impressive. This enabled us to keep to the demanding schedule and successfully complete the project.”

The pier Haffkrug.
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A place for the community

The new Haffkrug pier is more than just a connection between land and sea—it offers space for gatherings and events. A modern glass pavilion is ideal for celebrations such as weddings, while the weather-resistant bongossi wood decking gives the pier a warm, inviting atmosphere. From the upper platform, visitors can watch the hustle and bustle of maritime life and observe the ships arriving and departing one floor below through a glass cover.

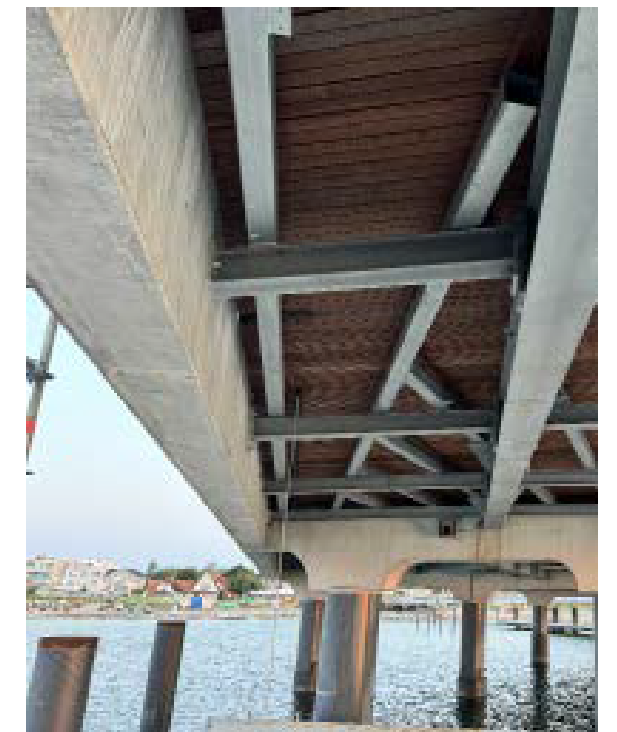
Long-term protection proven through research and testing

Dr. Thomas Pinger, Head of Research and Development at ZINQ, explains the durability of galvanized steel structures: “The protective life of zinc coatings can be estimated using standardized, general calculation methods. In this case, however, we were also able to draw on the results of long-term outdoor exposure tests carried out by the Federal Waterways Engineering and Research Institute (BAW) at its weathering site in Kiel using



Verzinkte Stahlkonstruktionen
während der Bauphase.
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View of the substructure of the
pier Haffkrug.
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The pier shortly before opening
Image on the left and images below:
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duroZINQ-galvanized samples.

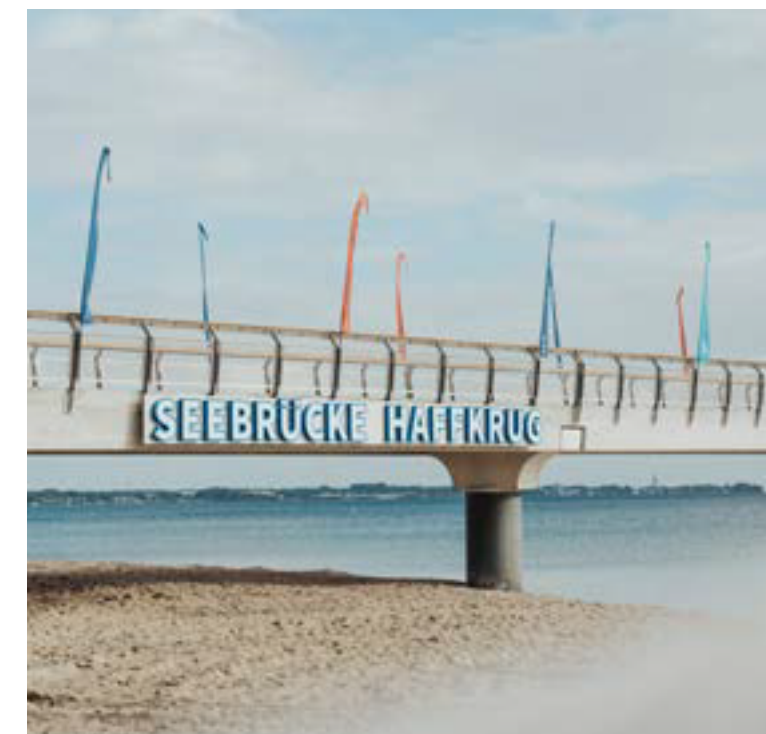
Over a period of five years, only minimal wear and tear was observed. Based on this performance record, the durability of the steel structure of the new pier in Haffkrug is assured for many decades to come. ZINQ continuously tests its surfaces under extreme conditions, offering customers long-term security. The longevity of the galvanized structure minimizes maintenance costs and provides the municipality of Scharbeutz with a landmark that will continue to inspire future generations.



The illuminated pier construction.
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The opening of the pier on September 28, 2024, was a celebration for the entire region and marked the successful completion of an impressive construction project.



The facts

Project

For the construction of the new Haffkrug pier in Lübeck Bay, a particularly reliable corrosion protection system was required to protect various steel components from the challenging maritime environment. The client therefore opted for the proven and sustainable duroZINQ piece galvanizing, which not only meets the highest corrosion protection requirements (C5), but also has been proven in long-term studies to be reliable and durable. This also minimizes the maintenance costs of the steel structure for a long time. The pier has been open since the end of September 2024.

Client

Christmann & Pfeifer Construction GmbH & Co. KG

Since 1925, the companies of the CHRISTMANN + PFEIFER Group have been providing intelligent solutions in industrial and commercial construction. The range of services extends far beyond that of a traditional construction company and combines all services under one roof: from project development, planning, and engineering services to steel construction, light metal construction, and bridge construction to the implementation of turnkey projects independent of building materials (also implemented as modular construction solutions). Further information is available at: www.cpbau.de

galvanization

ZINQ Landsberg / Halle GmbH

Further information is available at: www.zinq.de