

The Flag Wiesbaden: A high-rise building becomes a statement for sustainability

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View of the interior. © Hahner Technik



as the planters weigh up to two tons each. And the installation conditions in the middle of Wiesbaden, right next to a busy road and with no space for a mobile crane, presented us with additional challenges." The solution: engineering expertise and precision craftsmanship. Hahner and his team developed a method for installing the supports so that they could bear the load without settling from the very first kilogram - achieved using pressure screws, gap filling, and a specially adapted torque method. Precision was also required for the balconies: "We measured the entire building in 3D, pre-assembled the welded structures on the ground, and then lifted them into place with millimeter precision—without scaffolding, because there was simply no room for it," says Hahner.

Sustainability with a system

In addition to the technical masterpiece, the choice of materials also played a key role. For the long-term protection of the steel, ecoZINQ was deliberately chosen, which can be returned to the material cycle at the end of its useful life and offers decades of corrosion protection with a significantly lower carbon footprint. Compared to traditional hot-dip galvanizing, emissions are reduced by 43 percent, and compared to high-quality coating systems, each ton of steel saves as much as 185 kilograms of CO₂. This made ecoZINQ a perfect fit for The Flag's requirements: the highest technical quality, conservation of resources, and a clear contribution to circular construction. Revitalizing the existing building instead of demolishing it also significantly reduces the ecological footprint, as existing materials are preserved and resources are conserved.

Convincing partnership

"The challenges posed by 'The Flag' were extraordinary," emphasizes Bernhard Hahner. "With ecoZINQ, we were able to ensure that we not only met the highest technical standards, but also made a significant contribution to reducing CO₂ emissions. For us, this is a strong signal for the future." The close cooperation with ZINQ was also crucial: "Sometimes the components were delivered to ZINQ in Maintal late in the evening and were already being delivered to the construction site the next morning.



„The Flag“ is created. © Hahner Technik

This flexibility ensured that we didn't lose any time. "For the ZINQ team in Maintal, this pace was only possible thanks to well-established processes and cooperative coordination. Stefan Holz, plant manager at the ZINQ site in Maintal, also sees the project as groundbreaking: "The Flag shows how sustainability and quality can be combined in a construction project. With ecoZINQ, we provide a surface that not only protects, but also enables circular construction with a measurably lower ecological footprint. In addition, our depotmobile service from our ZINQ 360 offering ensures efficient and resource-saving logistics."

A project with a signal effect

The Flag represents the transformation of a piece of Wiesbaden's city history. It impressively demonstrates how a building can be given a new lease of life through preservation, revitalization, and the choice of circular materials. It is also a symbol of modern living, architectural precision, and circularity in construction. Hahner Technik and ZINQ have proven that strong partnerships and innovative solutions make all the difference, turning a building into a statement for the future.

In 2025, Hahner Technik received the German Metal Construction Award in the steel construction category for this project—an award that the company has already received several times for other pioneering projects. The "Metal Construction Oscar," which is awarded annually by the trade journal M&T Metallhandwerk und Technik, crowns this project and recognizes a structure that shows what can be achieved when precision, circularity, and revitalization come together.

The facts

Project

Under the name "The Flag Wiesbaden," the former "Duplex Hochhaus" on Dürerplatz—known for decades as an office building—is being revitalized and refurbished for a second lease on life. Instead of demolition and new construction, the existing structure is being preserved and converted—a sustainable approach in itself. The building is being redesigned as a modern apartment building with 65 barrier-free apartments for seniors. In addition to an extra floor, the building will have a green façade and new balconies with plant troughs. The challenging steel construction work was carried out by Hahner Technik GmbH & Co. KG from Fulda: 643 columns with a total of 96.5 tons of steel for reinforcing the existing shell and 64 balcony structures with a further 242 tons were installed. In addition, 12 tons of substructure for windows and facade were installed. ecoZINQ was used for permanent corrosion protection - a circular surface that not only offers maximum durability but also enables a significant reduction in CO₂ emissions: 43% fewer emissions compared to traditional hot-dip galvanizing and 185 kg of CO₂ savings per ton of steel compared to high-quality coating systems. Another important part of the collaboration was the depotmobil service from the ZINQ 360 program, which ensured efficient and resource-saving logistics.

Client

Hahner Technik GmbH & Co. KG

The company has been manufacturing sophisticated and complex steel structures for over 30 years. In recent years, its range of services has grown significantly beyond pure steel construction: in addition to metal construction, Hahner Technik is now also a designer and consultant—a full-service provider that plans interfaces and coordinates the relevant trades. Further information is available at: www.hahner-technik.de

Galvanization

ZINQ Beilstein GmbH & Co. KG, Maintal facility
Further information is available at: www.zinq.de