



Raab Bridge in Gleisdorf

Data and facts

Company	PORR Bau GmbH, Steel Construction department, PORR Bau GmbH, Styria branch
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Type	Bridge construction
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Runtime	12.2019 - 09.2020
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Principal	Province of Styria
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[Project report online](#)

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A one-of-a-kind bridge construction.

Both the steel superstructure and the arch were delivered to the construction site in ready-to-assemble condition. In a pure steel structure, the arches and longitudinal girders would have been assembled in the factory beforehand in order to test them for dimensional accuracy. This was not possible for this structure. For this reason, we had to pay special attention to the connecting surfaces and tolerance compensation during installation. We designed retro-cast steel mounting parts to absorb the tolerances resulting from production and assembly-related inaccuracies and to transfer any occurring forces.

The Raab Bridge in Gleisdorf is the only bridge we know of where a precast concrete arch and a steel composite carriageway were combined in this way. Once again, PORR has impressively demonstrated how good in-house teamwork and constructive coordination between different departments can allow projects to be implemented in an exemplary, efficient manner and to the client's complete satisfaction.

Impressions

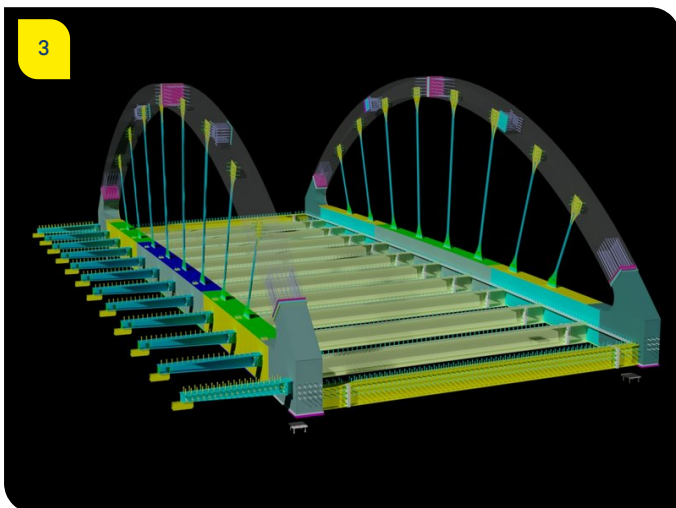


Image notes

1

Tied-arch bridge across the Raab.

2

Steel stiffening girders and cross girders.

To combine the respective strengths of the materials to optimum effect, we installed precast concrete in the parts of the superstructure under compressive stress, and steel in those under tensile stress.

3

A 3D model as a basis for planning.

The production drawings for the steel structure and mounting parts and the specifications for the precast concrete parts were exported from this 3D model created by the PORR Steel Construction department.

Hoisting in a longitudinal girder with a large crane.

Do you have questions about the project or would you like to learn more? Feel free to contact us for further information.

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