

Marina Deck

Data and facts

Company	PORR Bau GmbH, Steel Construction department
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Type	Bridge construction, Steel construction
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Runtime	03.2020 - 07.2021
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Principal	Marina Tower consortium, Swietelsky/Dywidag
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[Project report online](#)

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An architectural and technical tour de force.

Sweeping curves.

The roadway curves in all dimensions, its width varying from 3m to 11m. The maximum span is 50m, the total length is 220m. The inclined pylon is 30m high and designed as a conical steel tube, narrowing in diameter from 1.2m to 0.6m. The structure is vulnerable to oscillation; to combat this, a damper will be installed in the tip of the pylon. This last refinement is to be completed at the end of the work, based on oscillation measurements on the finished bridge.

Flawless teamwork.

Building the Marina Deck wasn't just a major challenge at the planning stage: there were also challenges to overcome during production and assembly. Due to active rail operations, the main assembly stages could only be carried out during periods of track closure agreed with the ÖBB, the Austrian Railway. PORR's sister company Eisenschutzgesellschaft m.b.H and our Specialist Civil Engineering department worked shoulder-to-shoulder to overcome all the challenges successfully. The remaining work was completed by mid-2021.

Impressions

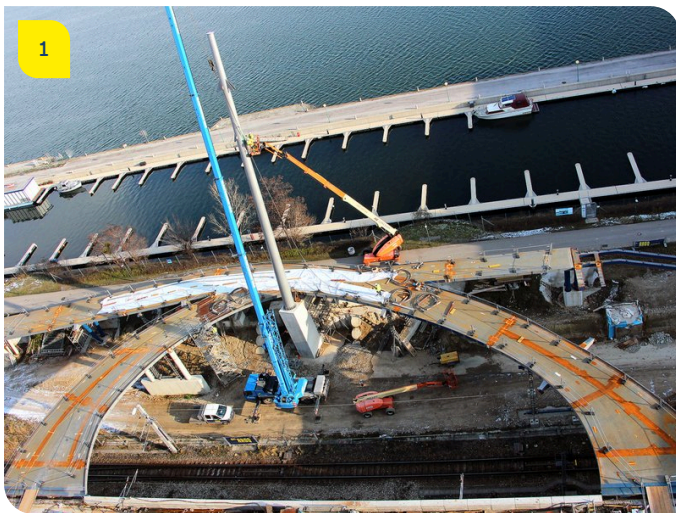


Image notes

1

Architectural and ...

The sweeping curves were perfectly implemented. Cherry pickers were used to bolt the cables to the pylon.

3

Teamwork...

The pylon was lifted straight from the special transport and rotated into place using two cranes. Once it is in its final position, our sister company Eisenschutzgesellschaft m.b.H will apply the corrosion protection using cherry pickers.

2

... technical challenges

We welded the individual parts together on the construction site and then lifted these large elements into place. Maintaining the geometry took top priority during this process.

4

... makes the dream work.

The cable pre-stressing process was worked out in close coordination with the experts in the Specialist Civil Engineering department.

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

PORR AG Group Communications

Absberggasse 47

1100 Wien

T +43 50 626-0

E-Mail: comms@porr-group.com