



General restoration of the Ludwig Bridges in Munich

Data and facts

Company

PORR GmbH & Co. KGaA

Type

Bridge construction

Runtime

06.2020 - 01.2024

Principal

Landeshauptstadt München – Building Division,
Department of Civil Engineering

[Project report online](#)

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PORR renovates structures on historic Isar river crossing

In phase 1 the cross reinforcement on the underside of the outer part of the Ludwig Bridges were strengthened piece by piece in a pilgering process. Working just a few metres from the often flooded Isar was a particular challenge.

The second phase of construction followed, with cross reinforcement of the vaulted ceilings of the footpath underpasses, and restoration or renovation of the road slabs. The existing structure had to be cut away, removed and rebuilt piece by piece in order to ensure the bridges remained structurally stable at all times.

The third phase of construction revolved entirely around strengthening the crown hinges. Extensive tests carried out during the construction work confirmed that the hinges were structurally sound. This meant that the complete renovation of the hinges originally planned, an extensive and technical undertaking, was not necessary. The only work necessary to reinforce the hinges was a minimally invasive procedure to strengthen the tensile gap reinforcement using innovative concrete screws.

Impressions



Image notes

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The reconstruction measures on the Ludwig bridges were carried out while road traffic continued to flow.

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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