PROJECT REPORT

# Hochmosel bridge on the B50, Zeltingen-Rachtig

Data and facts

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| **Company** | PORR GmbH & Co. KGaA in a consortium |
| **Type** | Bridge construction |
| **Runtime** | 08.2011 - 10.2018 |
| **Principal** | Landesbetrieb Mobilität Trier |

**Project report online**

www.porr-group.com

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# Overriding goal: to minimise the impact on the landscape

**Extremely high demands on design and construction**
The Hochmosel bridge rests on a total of 10 reinforced concrete piers ranging in height from 150m to 20m, which are founded on more than 100 drilled piles up to 50m deep. The special geological conditions on the steep slope meant that these had to be additionally doweled. The reinforced concrete piers have a single-cell rectangular hollow cross-section and wall thicknesses ranging from 30cm to 60cm. When viewed lengthwise, they are conical in shape, and when viewed crosswise, they have a pronounced taper. The single-section superstructure was constructed over 11 spans as a steel beam bridge with an orthotropic deck. The construction varies in height depending on the spans and reaches its maximum height at 7.78m in axis 4.

The shape, height, foundation parameters and mass distribution of this project meant that PORR paid particular attention to the load case of vortex-excited transverse vibrations: Pier models were put through wind tunnel tests, studies were carried out to reduce these forces, measures were developed to avoid them, and the final results were successfully put into practice.

# Impressions



# Image notes

1 **The heart of the road axis between BeNeLux and the Rhine-Main area.**

The Hochmoselbrücke is one of the largest bridges in Germany, under which there would even be space for the Cologne Cathedral.

2 **Hochmosel Bridge piers.**

View from heights of around 150m

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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