



Farris Bridge

Data and facts

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| Company | PNC Norge Infrastructure and JV Partner Implenla Construction GmbH |
| Type | Bridge construction |
| Runtime | 04.2014 - 12.2017 |
| Principal | Statens vegvesen |

[Project report online](#)

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A challenge in many facets.

With approximately 4,000 m³ of concrete and around 680 t of reinforced steel, the main foundation in axis 7 was at the time of casting the biggest foundation ever executed on Norwegian soil. The foundation was cast non-stop for 85 hours with 12 hour retarder to avoid cold joints. This process required enhanced technology and top-accuracy logistic planning on the site. Due to the long cooling time of the concrete, the finished foundation was kept covered for 1,5 months after completion of casting.

Farris Lake is an important destination for leisure activities and provides water supply for 200,000 people. Therefore, environmental protection was a huge demand during the whole construction period. Highest expectations needed to be met. The contractor was required to adopt specific measures to reduce both emissions and pollution to Farris Lake or streams, which included permanent monitoring and sampling of the water quality.

20 engineers and up to 130 workers were involved in the project. Work above an electrified single track railway line required safety measures to be implemented at all times. For each concreting over the railway, train stops had to be planned and applied for long in advance of the works. In the course of a fascinating bridge building project, PNC Norge mastered various technical and logistic challenges.

Facts and Figures.

- Asphalt: approx. 8,835 m²
- Concrete: approx. 42,000 m³
- Formwork: approx. 45,000 m²
- Reinforcement: approx. 7,500 t
- Tension reinforcement: approx. 103,000 mMN

Structural steel.

- Main span: approx. 1,100 t
- Tower tops: approx. 110 t

Railings.

- Exterior crash barrier and railings: approx. 1,440 m
- Middle crash barrier and railings: approx. 1,320 m

Impressions



Image notes

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Bridge over crystal waters.

The unique design of Farris Bridge sets a fascinating modern counterpoint to the unspoiled nature of Farris Lake.

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