PROJECT REPORT

Randselva Bridge

Data and facts

Company	PNC Norge AS
Type	Bridge construction
Runtime	02.2019 - 08.2022
Principal	Statens Vegvesen Region Øst

Project report online

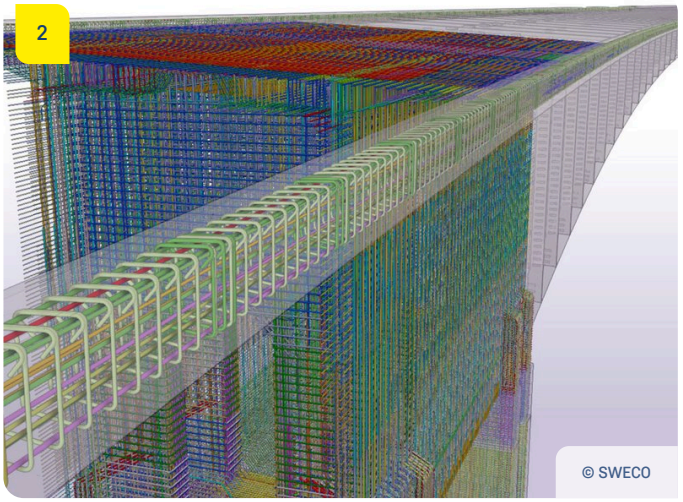
www.pnc-norge.no

The world’s longest bridge without drawings

partly as a balanced free-structure, and partly with the moveable scaffolding method (MSS). It has a continuous superstructure with a main span of 200m and six piles that vary in height between 5m and 42m. At the highest point, the bridge deck is 55m above ground level.

This Design & Build contract is based solely on BIM models; which makes it the world's longest bridge built completely without drawings, and received the TEKLA Global BIM Award.

Impressions



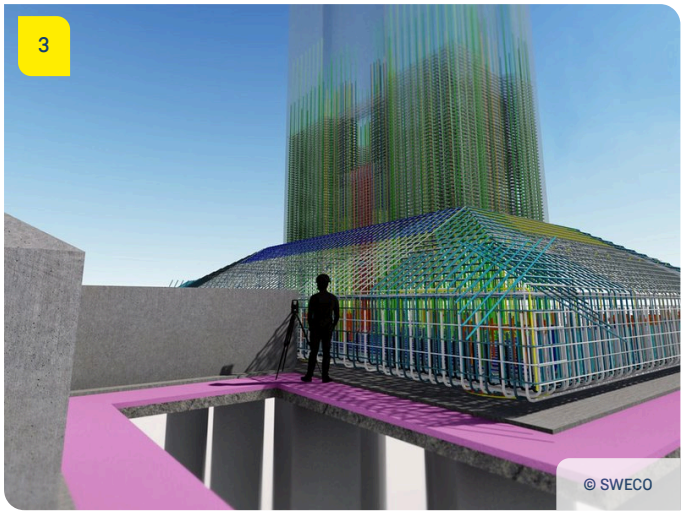


Image notes

1

Modern bridge through untouched nature.

The new Randselva bridge is crossing Randselva river and a railway track.

© SWECO

2

Bridge construction based on BIM.

Building Information Modelling, or BIM, is an integrative, digital approach to project management in the construction sector.

© SWECO

3

Overview of project phases.

The BIM model enables the digital visualisation of all architectural, technical, physical and functional construction data to create a digital building data model.

© SWECO

4

3D-modeling from the beginning.

BIM is used in the cost estimation and construction planning phase but also offers information and benefits during construction.

© SWECO

5

Accessible from anywhere.

6

Under construction.

All of the participants in the project can use all the information right from the start of the project.

© PNC

Randselva bridge has a continuous superstructure with a main span of 200m. Its six piles vary in height between 5m and 42m.

© PNC

7

Completed and finished.

In summer 2022, last works were done and the bridge was opened to traffic.

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8

An elegant curve to the future.

Randselva bridge is the world's longest bridge to be designed and built without a single 2D drawing.

© PNC

9

Safe journey ahead.

The new Randselva bridge will improve the accessibility and safety of traffic for all groups of road users.

© PNC

10

A work of excellence.

Randselva Bridge is winner of the Best BIM Project & Best Infrastructure Project category of Tekla Global BIM Awards.

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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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