

Slab Track Austria for the upgrade of the Maribor-Šentilj railway line

Data and facts

Company	PORR Bau GmbH
Type	Railway construction, Slab Track Austria
Runtime	05.2021 - 10.2022
Principal	SŽ - ŽGP Ljubljana d.d.

[Project report online](#)

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PORR STA closing the gap between Slovenia and Austria for international freight connections

According to the best practices from Austria and Germany and the EU rail safety requirements, the entire tunnel section with slab track will be utilised in conjunction with tyre-accessible precast panels to serve the response vehicles if needed. On the viaduct, slab track was fitted with precast derailment protection panels. This innovative precast panel solution by PORR was chosen over traditional fastened steel guard rail devices based on cost savings, the ease of installation and the possibility of dismantling for maintenance or repair.

In collaboration with FCP, deck-end rotation and displacements on the viaduct were analysed to determine potential conveyed rail stresses. To mitigate this condition, specially designed slabs with reduced creep resistant rail fastenings are implemented at the deck-ends.

Project deliverables.

PORR as the system provider delivered the system design, supplied precast slab components and provided technical supervision and assistance during construction. Part of the production was carried out in cooperation with a Slovenian precast producer under PORR's guidance. This local partnership is considered as a strong foundation for future slab track projects in Slovenia and could further develop business in the adjoining regions.

Impressions

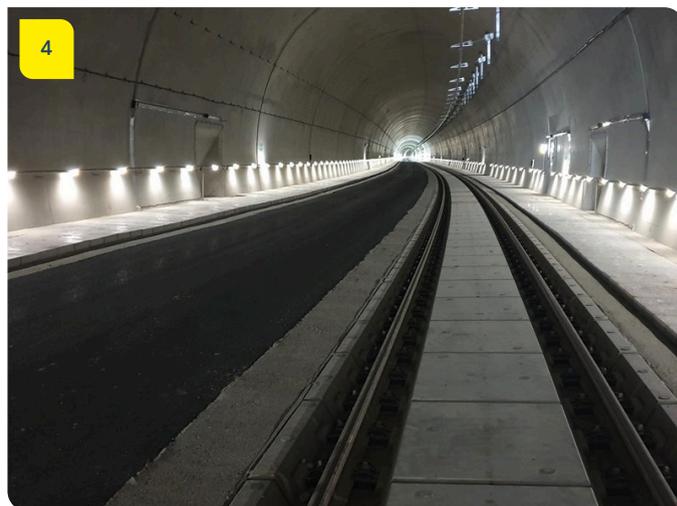
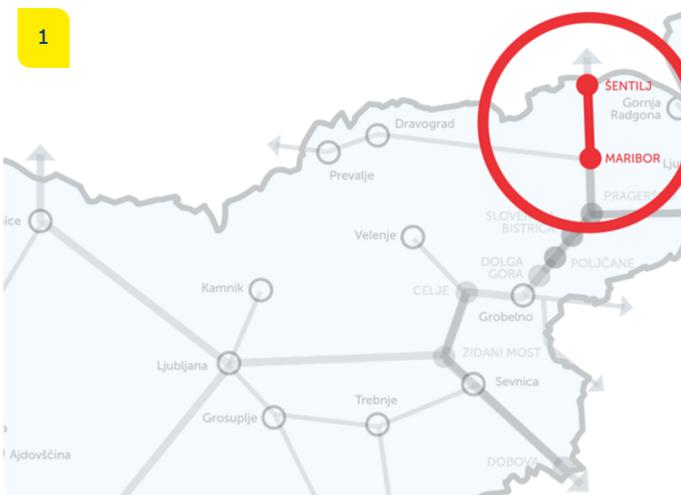


Image notes

1 Upgrade of the Maribor-Šentilj railway line.

2 Deck-end slab in production.

Deck-end slabs fitted with System 300-1 and BSP FF-B-1 rail fastenings.

Slab track with tyre-accessibility and derailment protection was implemented in the new Pekel tunnel and Pesnica viaduct of railway section between Maribor and Šentilj at the Austrian border.

3

PORR Feste Fahrbahn im Tunnel der Bahnstrecke Maribor-Šentilj in Slowenien.

Die Feste Fahrbahn ist mit Befahrbarkeitsplatten für Einsatzfahrzeuge ausgestattet.

5

PORR Feste Fahrbahn auf der Pesnica-Brücke, Teil der Bahnstrecke Maribor-Šentilj in Slowenien.

Die Feste Fahrbahn auf der Pesnica-Brücke ist mit Befahrbarkeit für Einsatzfahrzeuge ausgestattet. Diese in Kombination mit Entgleisungsschutzfunktion für den Schienenverkehr wurde als wertschöpfende Engineering der PORR geliefert.

4

PORR Feste Fahrbahn im Tunnel der Bahnstrecke Maribor-Šentilj in Slowenien.

Das zweite Gleis durch den Pekeltunnel wird in Zukunft realisiert.

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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