



S10 Mühlviertler Highway, Construction Section 4.1, Section Bypass System Freistadt

Data and facts

Company	PORR Bau GmbH, NL Upper Austria, in performance group with PORR Tunnelbau and PORR Bau GmbH, Infrastructure Department
Type	Structural engineering, Tunneling, Bridge construction, Earthworks
Runtime	11.2011 - 08.2014
Principal	ASFINAG AG

[Project report online](#)

Free travel from Linz to the Czech Republic.

The two remaining objects were carried out simultaneously with the other projects as their own production lines due to their penalised interim deadlines.

The underground route F34 with a length of about 800 m was built as a tunnel with two carriageways using open construction method. With a block length of 25 m, the abutments and the three walls were build consecutively. Subsequently, the ceilings were concreted in weekly shifts with a slab formwork carriage. The gallery Brandstätter F40 / 42 was planned as an open reinforced concrete frame with horseshoe cross-section and a block length of 25 m. Consecutively, the abutments and a base member were concreted. Subsequently, the pillars and the vault were made in two 12.5 m long blocks with the tunnel formwork carriage. Finally, a spur for noise reduction of the second directional roadway was implemented on the vault and fed in the building on one side. The vault was built with a thickness of 60 cm and a reinforced construction joint as white tank. The gallery is interrupted by the bridge F41. In order not to interrupt the noise protection, the gallery vault was built over the bridge in steel construction with panelling.

As a separate group the production of the five operational buildings and line collectors and the water protection systems for the operational phase were implemented at the portals of the tunnel sections.

Impressions



Image notes

1

Contract section 4.1, Mühlviertler highway.

The project included extensive tunneling.

2

Construction 4.1, Mühlviertler highway.

Portal view of the tunnel Satzinger Siedlung

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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