

# SBB Bözbergtunnel



## **SHORT DESCRIPTION**

The existing Bözberg tunnel between Frick and Brugg does not meet the new requirements for the clearance gauge (corner height 4.0 m) and will therefore be replaced by a new 4-metre corridor as part of the overall project.

## **THE PROJECT**

The new 2.7 km long double-track tunnel runs parallel to the existing railway tunnel at intervals of 30 to 50 m. In the southern portal area, a loose rock section of 108 m will first be excavated with pipe umbrella stages. The remaining 2503 m will be excavated with a TBM-S ø 12.36 m. Five cross passages including rooms for the technical equipment are to be excavated to the existing tunnel, which will be extended as a service and rescue tunnel after completion of the new construction. The new tunnel will be constructed with two lanes, with a fixed carriageway and overhead conductor rail.

See TV-Report from Schweiz aktuell.

## **CHALLENGES**

• Construction of the new tunnel along the existing main line

- Tunnelling in swellable sulphate containing rock
- Drifting in the catchment area of the thermal spring Schinznach Bad

## **FURTHER INFORMATION**

# **Key data**

- Realization 2015 2022
- Construction sum CHF 145 million
- EUR 132 million
- Total length 2,611 km
- diameter 12.36 m
- Outbreak volume 320'000 m<sup>3</sup>
- Geology Slope rubble, marl, siltstone and sandstone, limestone and claystone as well as sulphate rocks (gypsum skeuper, anhydrite group)

#### **Task**

100 % Implenia as general contractor including execution project planning Implenia Switzerland Ltd, Infrastructure - Tunnelling CH-8304 Wallisellen

#### Services rendered

- Pre-cut with nail walls. Excavation and interior work including sealing; self-rescue measures, low-voltage system, track (slab track and ballast)
- Portal structures, commissioning of new construction tunnels, conversion of existing tunnels into service and rescue tunnels, implementation planning and site management.

# Construction methods

- Machine-assisted driving of loose rock (pipe shield)
- mechanical driving with TBM-S and segmental lining.

# **Project participants**

Owner

SBB; infrastructure projects; CH-6002 Lucerne

# **FACTS**

Location	Strihen , Switzerland
Status	completed
Construction volume (value of our services)	145 M CHF
Start of construction	May 2015
Completion	May 2022

TBM Tunnelling	<b>✓</b>
Other tunnelling	<b>✓</b>

# **SERVICES**

Tunnelling

Transport tunnels

Urban transport infrastructure

Rail transport infrastructure



https://implenia.com/en/references/detail/ref/sbb-boezberg-tunnel-1/

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