

## 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  $\varnothing$  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

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

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**TBM Tunnelling** ✓

**Other tunnelling** ✓

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## SERVICES

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Tunnelling

Transport tunnels

Urban transport infrastructure

Rail transport infrastructure



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

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