# 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 $m^3$
- 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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|---|---|
| **Location** | Strihen , Switzerland |
| **Status** | completed |
| **Construction volume (value of our services)** | 145 M CHF |
| **Start of construction** | May 2015 |
| **Completion** | May 2022 |

| | |
|---|---|
| **TBM Tunnelling** | ✓ |
| **Other tunnelling** | ✓ |

## 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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