RHOMBERG SERSA RAIL GROUP



Refurbishment of Hauenstein Base Tunnel

General Contractor Plus (GU+)

Services

- ✓ Preparation of the execution design (Phase 51 according to SIA 103/112)
- ✓ Site supervision (Phase 52 according to SIA 103/112)
- ✓ Commissioning and project close-out (Phase 53 according to SIA 103/112)
- ✓ Coordination of SBB services during the execution design and construction phases
- ✓ Provision of logistics and ensuring safety in the tunnel for SBB services and third-party contractors

Location:	Basel–Olten, Switzerland
Client:	Swiss Federal Railways (SBB)
Construction period:	September 2023 – December 2027
Services:	Refurbishment of tunnel lining and ventilation shaft, renewal of track and crossovers, drainage systems, railway service chambers, cable ducts and escape routes, as well as renewal of cables, technical and control systems, self-rescue systems and earthing.
Executing companies:	Rhomberg Sersa Rail Group (Switzerland)

Read more:

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Scope of Works – Refurbishment of Hauenstein Base Tunnel (GU+ Construction Works)

- ✓ Refurbishment of the tunnel lining in areas with significant damage
- ✓ Refurbishment of the ventilation shaft, including head and base structures
- ✓ Renewal of the track with invert lowering
- ✓ Renewal of crossovers with invert lowering
- ✓ Local refurbishment of side drainage and selected chambers of the central drainage system
- ✓ Addition of one incident retention basin in each of the two portal areas
- ✓ Excavation and construction of 7 new railway service chambers
- ✓ Installation of a one-sided cable duct and redesign of the escape route on the side of track 100
- ✓ Renewal of cables, technical systems and control system (LSS – CH)
- ✓ Renewal of self-rescue systems (handrails, emergency lighting, signage) on the side of track 100, including extension to the open line up to the assembly points
- ✓ Installation of additional earthing loops

Key Personnel

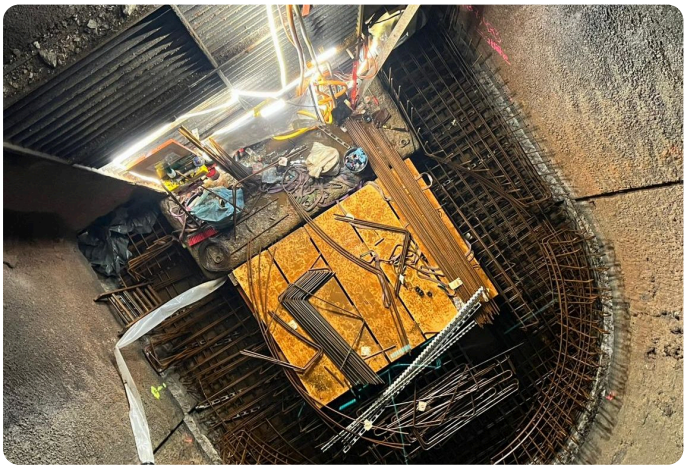
- ✓ Overall Project Manager: Lukas Herburger
- ✓ Head of Design – Cables & Technical Systems: Michael Krös (Epro Traffic)
- ✓ Head of Construction – Civil Works / Tunnel Works: Marco Würsch / Michal Szymanski
- ✓ Head of Construction & Commissioning – Cables and Technical Systems: Marsel Sljivo
- ✓ Head of Track Works: Ramazan Sönmez
- ✓ Site Management & Overall Coordination: Melissa Preschan
- ✓ Construction Manager – Civil Works External Areas: Marco Würsch

Special Features

- ✓ All construction works are carried out by internal companies of the Rhomberg Sersa Rail Group; exceptions are slipform works in the ventilation shaft and waterproofing works
- ✓ Refurbishment of a 134 m high vertical ventilation shaft
- ✓ Obtaining various approvals from the Federal Office of Transport (BAV) and SBB for combined vehicle-machine operations

Construction Under Operation

All works – except for the turnout replacement in the crossovers – are carried out while maintaining 24-hour railway operations on the adjacent track (track spacing 3.6 m). Construction activities are limited to night-time possessions (typically 23:00–06:00) on the construction track. During daytime, both tracks in the tunnel remain fully operational.





Read more: