

Renewal of the Track System – Lötschberg Summit Tunnel, Southern Section

Lötschberg Summit Tunnel, Switzerland

The project involved the refurbishment of 0.2 km of ballast track and the conversion of 1.3 km of ballasted track to the slab track system. The key tasks included:

- ✓ Excavation of the existing ballast track and construction of a new slab track
- ✓ Renewal of four turnouts
- ✓ Installation of a transition structure between ballasted track and the slab track
- ✓ Adaptation of the drainage system (installation of transverse drains, construction of longitudinal drainage channels and side drains)
- ✓ Installation and adjustment of railway safety systems (axle counters, balises, cable connection boxes, dwarf signals)
- ✓ Construction and installation of chambers for signalling and telecommunications cables

Location:	Lötschberg Summit Tunnel, Switzerland
Client:	BLS Netz AG
Construction period:	08.2023 - 11.2024
Services:	Upgrading and refurbishment of the ballasted track, installation of slab track, adaptation of tunnel drainage, cable protection systems and escape routes.
Executing companies:	Rhomberg Sersa Rail Group (Schweiz)

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Read more:

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Technical Data

Construction of LVT slab track	2'556 m
Slab track for turnouts (EW 60E2-900-1:9)	4 Stk.
Rail installation UIC 60 E2 & 54 E2 R260/R350HT	5'600 m
Supply and installation of slab track concrete	3'150 m^3
Construction of transverse drains	61 units
Construction of drainage channels	1'150 m
Construction of signalling and telecommunications shafts	8 units
Supply and installation of LVT blocks	18'600 units
Aluminothermic welds	117 units
Ballast excavation	8'050 t
Track panel excavation	370 t
Escape route widening	1'322 m
Construction of ballast track (2 tracks)	226 m

Special features

- ✓ Limited space for installing the turnouts
- ✓ Short work windows due to restricted blockade times on the adjacent operational track
- ✓ Logistically demanding material transport, especially the installation of the LVT blocks
- ✓ Localised groundwater ingress









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