



Lötschberg Base Tunnel Steg/Raron Lot

**Client
Design
Contractor**

BLS AlpTransit AG
Engineering Joint Venture Westschweiz IGWS
Joint Venture: ARGE Matrans
– Marti Tunnelbau AG, Berne
– Walter Gruppe, Augsburg
– A. Porr AG, Vienna
– Balfour Beatty Ltd, London

**Managing Contractor and
Technical Management**

Marti Tunnelbau AG, Berne



1. Prefabricated invert segments in the back-up trailer
2. Assembly of the Steg TBM
3. Breakthrough



Project

Single track rail tunnels of NEAT-Lötschberg alignment
(new Alpine rail routes)

Steg Access Tunnel und West Tunnel
– TBM drive, length = 8,925 m

West Tunnel
– Drill + blast drive, length = 4,600 m

East Tunnel
– TBM drive, length = 10,005 m

Annex structures
– 20 cross tunnels
– East and West Lötschen Operation Centres
– Lötschen change-of-gauge facilities and junction caverns
– Preliminary pit, retaining walls, operation building and portal structure

Construction Period

2000–2005

Contract Sum

CHF 500 million

Services

TBM-drive Ø 9.43 m: rock securing measures using anchors, mesh reinforcement, shotcrete, steel arches, prefabricated invert segments
Pipe umbrella drive: L = 35 m, A = 92–104 m²
Drill + blast drive: rock securing measures using anchors, mesh reinforcement, shotcrete, steel arches
Inner lining: in-situ concrete

Executed by Marti Tunnelbau AG, Berne