



BASIC TUNNEL OF LÖTSCHBERG

STEG/RARON (CH)

EMPLOYER

BLS AlpTransit AG, CH-3601 Thun

DESIGNER

Gruppo d'ingegneri IGWS

TIME OF COMPLETION

2000 – 2005

CONTRACT SUM

CHF 500 Mio.

EXECUTION OF THE WORKS

ARGE MaTrans

CONSORTIUM PARTNERS

Marti Tunnelbau AG, CH-3302 Moosseedorf

Walter Gruppe, DE-86150 Augsburg

Porr AG, AT-1100 Wien

Balfour Beatty Ltd., UK-London

LEAD COMPANY AND TECHNICAL LEAD

Marti Tunnelbau AG, CH-3302 Moosseedorf

COMMERCIAL LEAD

Porr AG, AT-1100 Wien

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SCOPE OF THE WORKS

Base tunnel Steg (railway tunnel NEAT) / Acces tunnel of Lötschberg

Principal advances

- Acces tunnel Steg and west tunnel: L= 8'925 m with TBM
- Base tunnel west Raron – Lötschen: L= 4'600 m with drill and blase
- Base tunnel east Raron – Ferden: L= 10'005 m with TBM

Supplementary constructions:

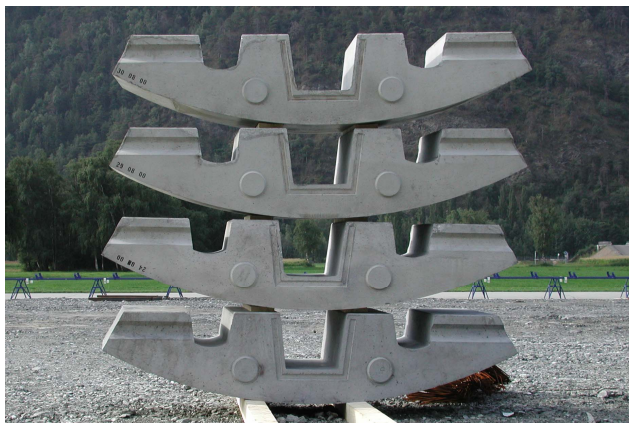
- Cross cuts: 20 pces, A= 18 m²
- Connecting caverns Lötschen: L= 296 m, V=21'700 m³, A= 64 - 75 m²
- Track changing Lötschen West: L= 199 m + 82 m
- Operating central station Lötschen West: L= 50 m, V= 12'000 m³
- Gates, walls retaining, bridge

ACTIVITIES

- TBM drive: Ø= 9.43 m:
- Rock stabilisation with anchors, nets, shotcrete, support archs
- Pipe screen drilling
L= 35 m, A= 92 - 104 m²
- Blast driving: Rock stabilisation wick ancors, nets, shotcrete, support archs
- Concrete lining in shotcrete manufactured on place

GEOLOGY

- Gneiss
- Granite



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Marti AS

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