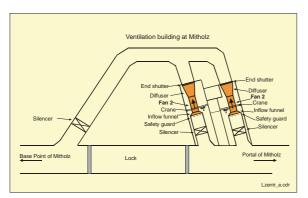
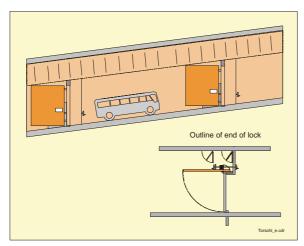


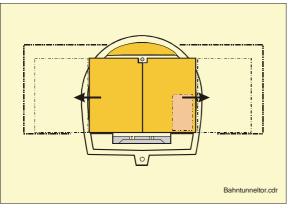
Loetschberg Base Line (CH) Basic design of electrical and mechanical equipment



Schematic of ventilation station at Mitholz



Lock in lateral adit Mitholz



Gate in rail tunnel

HBI Haerter

Description

The Loetschberg Base Line is a principal element of the New Cross-Alpine Rail Links (NEAT) in Switzerland. Central elements of the Loetschberg Base Line are the Loetschberg base tunnel with a length of approximately 35 km and the Tunnel Engstlige with a length of approximately 3 km. There are demanding requirements regarding the lifetime and availability of the electro-mechanical equipment.

HBI Haerter Consulting Engineers was mandated with planning services for mechanical equipment and ventilation at the stage of the basic design.

Services

The following services were provided by HBI within the phase of basic design of electrical and mechanical equipment:

- Implementation of the feasibility studies and of the electro-mechanical requirements in a basic design
- Design of the ventilation stations at Mitholz and its fans
- Design of the mechanical equipment, particularly tunnel-sided gates and doors, gates of locks, doors in the rail tunnels, rails, handrails, and signage of escape routes
- Specification of requirements for the equipment considering the rail-specific needs
- Issuing of inventory, drawings of equipment and basic design of principle elements and documents for authorities
- Issuing of documents for approval of the design
- Calculation of costs and comparison of different alternatives
- Set up of time schedules for further project phases