

N08 Escape Passage Sengg Tunnel, Safety Galleries Chüebalm and Giessbach Tunnel

Client

Federal Roads Office (ASTRA),
 Regional Office Thun

Engineering

Consortium „Notausgang N8“,
 lead by IUB Engineering Ltd.

Construction period

2013–2017

Construction costs

96 Million CHF

Scope of services

General planning contract from detail design to site supervision for driving and lining the galleries, air locks and exterior appurtenances, surveying and provision of electromechanical equipment.

Description

The Chüebalm and Giessbach tunnels will receive a total of 15 emergency exits. To this end, a safety gallery will be constructed parallel to each tunnel, to which it is connected via cross passages. The safety gallery for the Giessbach tunnel will be bored using an open gripper TBM, whereas the safety gallery for the Chüebalm tunnel will be excavated by conventional drill-and-blast method. Both galleries will be equipped with air locks and technical chambers at the portals.

The Sengg tunnel will just be equipped with an emergency passage at the centre of the tunnel, leading to the surface via a gallery and a staircase shaft. At the head of the shaft an operating building with integrated air lock is being constructed.

Principal data

Safety gallery Giessbach tunnel	
Length	3319 m
Diameter	5.20 m
Safety gallery Chüebalm tunnel	
Length	1150 m
Cross-section	3.20 m x 4.50 m
Escape passage Sengg tunnel	
Shaft depth	10 m
Shaft diameter	6.60 m
Gallery length	50 m
Cross-section	2.60 m x 3.20 m

