

# BELCHEN TUNNEL SAFETY UPGRADE



## Sissach, Switzerland

Refurbishment of a 3'180 meter long double-tube road tunnel on the A2 motorway.

Tunnel ventilation and preliminary works preceding the comprehensive refurbishment of the existing tubes.

# Tunnel Safety Upgrade

## Location

Sissach, Switzerland

## Key Data

Preliminary structural works:	CHF 24.5 million
Access structures:	CHF 1.9 million
Safety upgrade costs:	CHF 33.2 million

## Project Phases

Detail design to final design	2006 – 2014
-------------------------------	-------------

## Project Description

At both northern and southern tunnel portals:  
Exhaust-air ventilation tunnel with integrated service ducts constructed as single-shell: L = 200 m  
Connection structure, exhaust-air tunnels and service ducts. Approach cut and central enlargement between both tunnel tubes.

Demolition of intermediate ceiling: L = 220 m  
Construction of main tunnel intermediate ceiling in areas of exhaust-air tunnel connections in both tubes: L = 24 m  
Including works to

ischelkalk  
d Effinger  
allovia  
uth.  
ay.

office

RG  
NG

Amberg Engineering AG  
Trockenloostrasse 21  
CH-8105 Regensdorf-Watt

information@amberg.ch, www.amberg.ch



**Object**  
Construction of new auxiliary works in an existing road tunnel and modifications to the tunnel tubes

**Our Services**

- Schematic, tender and final designs
- Site supervision

