

**> Horburg tunnel, Basel, Switzerland**

KAEFER Construction GmbH, Frankfurt

Summary	The 4th section of the Northern tangential road is a four-lane motorway with a total length of 3.18 km, most of which is underground. The fire-protection on a tunnel section of 180 m needed replacing to ensure the stability of the buildings above.
Location	National road N2, Northern tangential, Section 4, Horburg, Switzerland
Build time	June 2006 to August 2006
Client	Building department of the canton Basel-Stadt, Underground building section, Münsterplatz 11, 4001 Basel, Schweiz
Architect	Ingenieurbureau A. Aegerter & Dr. O. Bosshardt AG, Hochstrasse 48, 4002 Basel, Schweiz
KAEFER's role	Fire-resistant cladding of the reinforced concrete structure to ensure stability in case of fire, plus stretched self-supporting ceilings.
Challenge	Complicated, irregular tunnel geometry, featuring changes in height, substantial lateral and longitudinal torsion and ceiling penetrations to be covered, with a short construction period.
Our solution	Design and execution of special solutions, e.g. stretched, self-supporting ceilings and fire-resistant enclosures for the tunnel's technical equipment.
Added value for client	Everything from a single supplier; experience in fire protection for tunnels ensures quality and swift completion.

