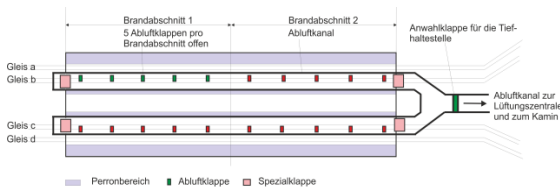
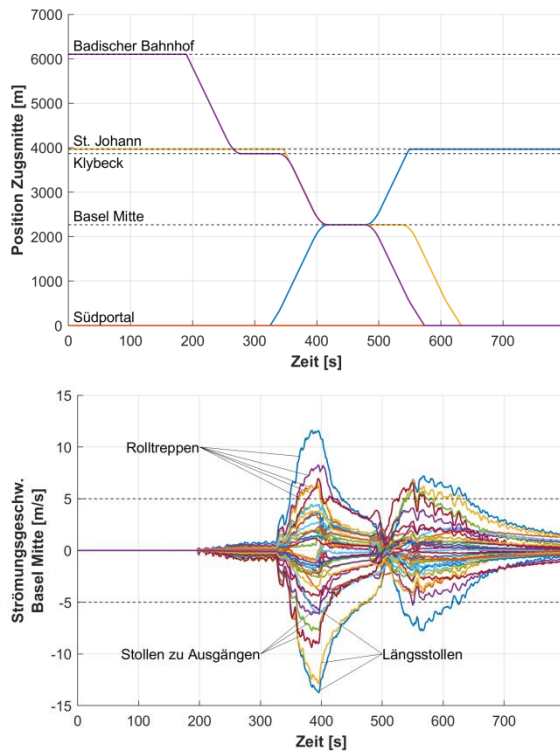


City train connections in the Herzstück Basel in Switzerland



Ventilation diagram for an underground stop



Calculated, draft-induced airflow speeds in the public waiting area of the underground stop

Description

As part of the Basel railway junction project, the canton of Basel-City and Basel-Country are planning the infrastructure requirements for improved networking of the agglomerations with direct access to the downtown area to cater to future settlement developments and respond to the increase in traffic in an environmentally responsible manner.

In addition to extending the access routes, an underground city train connection between the elevated stations of Basel SBB, Badischer Bahnhof and St. Johann comprises the centerpiece of the project with underground stations Basel-Mitte and Klybeck ("Herzstück Basel Y").

Services

HBI Haerter Consulting Engineers was commissioned by the project management of the Herzstück Y Basel consortium to conduct a feasibility study in aerodynamics and ventilation engineering for the underground tunnels of the Herzstück Basel project:

- Preparation of potential solutions for ventilation concepts
- Definition and visualization of a suitable ventilation concept
- Rough specification of HVAC systems for ventilation concept defined using suitable calculation tools
- Confirmation of structural design in conjunction with aerodynamics and ventilation specifications (e.g. required for pressure-surge structures and HVAC centers)
- Coordination of approach and analysis of interim results with project team and client
- Presentation of approach, methodology, results and conclusions in technical report
- Provision of cost calculation basis
- Identification of open items and planning focal points for upcoming project phases