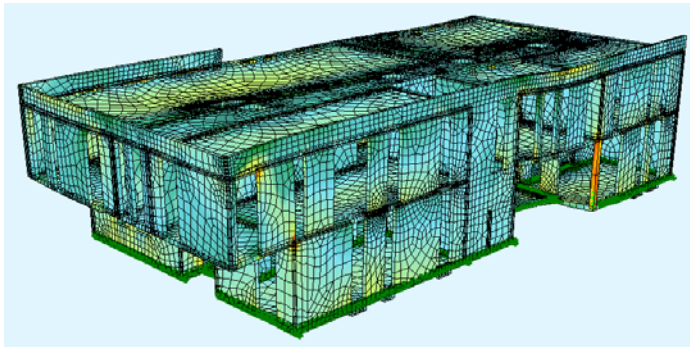


3D-model of youth center with support on damping elements, deformed structure



3D-model of day-nursery with support on damping elements, deformed structure

## Day-nursery and youth center above subway tunnel

Munich, Neuherbergstrasse

Building of two and three story structures directly above a subway tunnel

The reinforced concrete structures are placed on special damping layers on the foundation beams

The buildings were computed by means of complex spatial FE-models to determine exactly forces acting on the damping elements

Gross volume	ca. 8,000 m <sup>3</sup>
Usable area	ca. 1,300 m <sup>2</sup>
Costs of building	ca. 2.2 Mio EUR

Client:  
Munich, Capital of Bavaria, Building Department

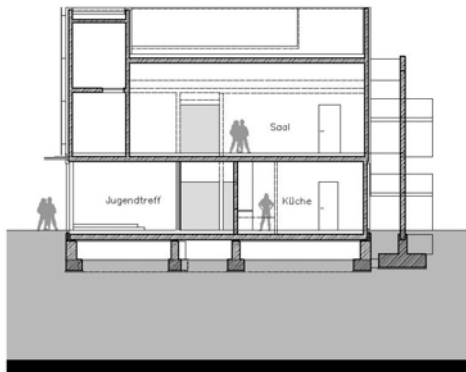
Architect:  
Ebe & Ebe Architekten GmbH, Munich

Services (2004 - 2006):

Structural engineering acc. to HOAI, § 64, LPh 1 to 6  
Design of vibration damping to minimize vibration effects from the subway tunnel

Planning of thermal insulation, noise control and fire protection

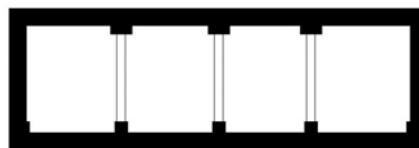
Site management and supervision acc. to HOAI, § 64



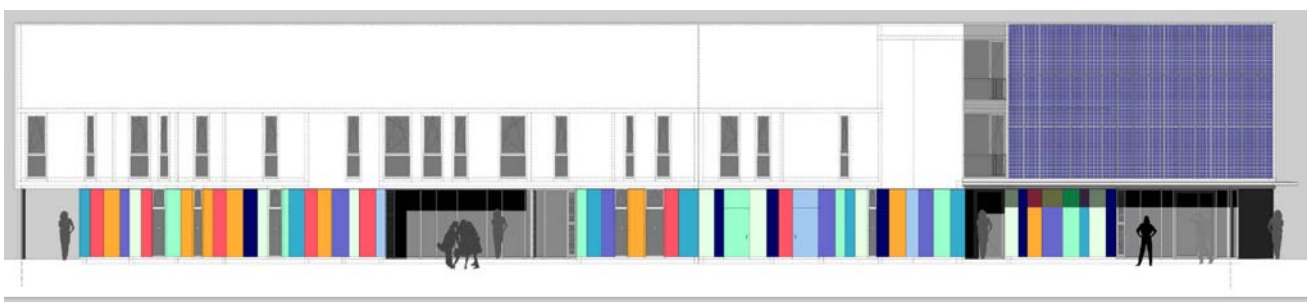
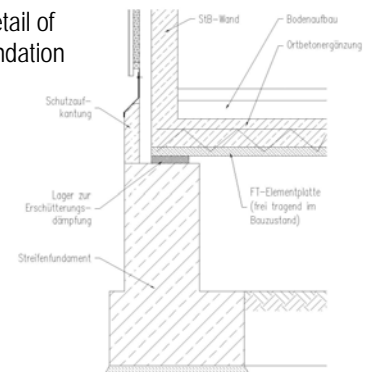
U-Bahn-Röhre

Cross section of building with subway tunnel

Querschnitt U-Bahn-Röhre



Detail of foundation



View from south