

Metro Project

Athens Attiko Metro

Extension of Line 3

Athens, Greece

Project

- Metro tunnel
- Construction shafts

Construction Cost

Total cost: approx. € 43,12 m.

Project Schedule

Design: 2002-2007
Construction: 2002-2007

Project Description

- Railway tunnel in urban environment
- Total length: 1890m
- Cross section: 67m²
- Five construction shafts
- Depth: 25-30m
- Cross section: 80-300m²

Method of tunnel excavation

NATM – Mechanical excavation

Final Lining

Reinforced concrete C20/25

Geology

Schists, alluvial deposits, man-made deposits
Ground water
Max. overburden: 18m

Our Services

- Detailed geotechnical & structural design
- Supervision during construction
- Design jointly elaborated by OMIKRON KAPPA CONSULTING & EDR GmbH, Munich

Construction Details

- Special drainage measures
- Special grouting techniques

Client

J/V AKTOR S.A. – IMPREGILO S.p.A.



Prof. Daniel shaft



Railway tunnel, fully excavated



Railway tunnel during the excavation phase

Metro station
Athens Attiko Metro
Eleonas station building
 Athens, Greece

Project

Metro station building

Construction Cost

Total cost: approx. € 6 m.

Project Schedule

Planning and design: 2004 - 2007

Construction: 2003 - 2007

Project Description

Width: 30m

Length: 40m

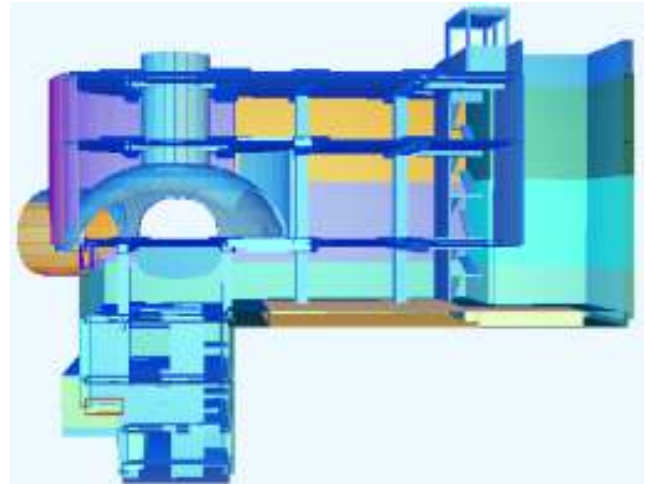
Depth: 34m

Our Services

- Detailed geotechnical, structural & architectural design
- Supervision during construction
- Design jointly elaborated by OMIKRON KAPPA CONSULTING & EDR GmbH, Munich

Client

J/V AKTOR S.A. – IMPREGILO S.p.A.



Analysis model of the building



Construction works



Architectural design of the station building

Metro station
Athens Attiko Metro
Eleonas station
 Athens, Greece

Project

Metro Station Building Pit

Construction Cost

Total cost: approx. € 12,7 m.

Project Schedule

Design: 2003 - 2007

Construction: 2003 - 2007

Project Description

Pile anchored wall retaining structure

Width: 30m

Length: 40m

Depth: 34m

Construction Method

- Pile anchored wall retaining structure
- Top down construction

Geology

Alluvial deposits, man-made deposits

Ground water

Archaeological findings

Our Services

- Detailed geotechnical & structural designs
- Supervision during construction
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Client

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Archeological findings during construction



Building pit SE view during construction

