



Casablanca Finance City Tower

Studies and execution follow-up

2015 - 2016



**MOROCCO -
Casablanca**

Client

**BYMARO BOUYGUES
MAROC**

Highlights

25-floor tower with six underground parking levels

Soil-nailed wall for the upper part

Wall with rock bolts for the lower part



The Project

The project, located on the site of the former Anfa airport (Casablanca), consists of a 25-floor tower with six underground parking levels (down to 20 m deep). The geology consists of loose formations some ten metres thick, underlain by a schist substratum. The phreatic level is expected at 8 m below the groundlevel. The temporary retaining walls consist of:

- a soil-nailed wall for the upper part, its stability checked with Talren calculations,
- a wall with rock bolts for the lower part, its stability checked with block calculations.

Key features

- Geotechnical design
- Works follow-up on site

Our Services

In the context of the construction of the Casablanca Finance City tower, BYMARO, the contractor in charge of the works, has contracted TERRASOL:

- to conduct geotechnical detailed studies related to the design of the temporary retaining structures, the drainage system, and the soil-structure interaction aspects,
- for the follow-up of the works

We also carried out the studies of the tower settlements, and of the control system for water under-pressures. The follow-up of the works on site was carried out by our Morocco-based geotechnician. It included the follow-up of the excavation operations: validation of the soil nails pull-out tests, checks during excavation, fractures survey, advice on project ad-hoc adjustments.

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