

LOADTEST

Rolsen Mall & Hotel Project, Erbil – Kurdistan, Iraq



Erbil – Kurdistan, Iraq

Project: Rolsen Mall & Hotel

Location: Erbil - Kurdistan, Iraq

Client: Rolsen Co.

Project description: Located in the heart of Erbil, Rolsen Mall & Hotel is set to become the country's hottest retail attraction with its stunning design and amenities.

Some of the project's features include:

- A basement level for parking & services for the hotel
- A 3 storey mall with hyper market and 25 storey hotel and furnished apartments.

The main developer of the project, Rolsen Co., awarded the foundation contract to Dubai Mass Foundation.

The test was the first O-cell® load test performed in Iraq. One single level O-cell® load test served to validate the design assumptions and provided key data in selecting the final depth of the working piles.

The test pile was fully instrumented with strain gauges and extensometers to obtain maximum information during the test. The results of the load test allowed the designer to finalize the preliminary pile design for the working piles for both the tower and the surrounding area of the mall.

As the test pile was intended to carry structural load (i.e. a production pile), the contractor performed grouting of the hoses and piping to fill the O-cell® and annular void in the pile created as a result of the expansion of the O-cell®. Thus fully restoring the structural integrity of the tested pile.



O-cell® instrumentation



O-cell® cage lifting during installation



Concreting in process



Artistic view of Rolsen Mall (Source: Rolsen Co.)

