LOADTEST O-Cell[®] Technology in Georgia

Project: Millennium Hotel in Tbilisi

Location: Tbilisi, Georgia.

Client: Millennium Group Hotel

Contractor: Shps Khidi Ltd
Consultant: Lenavi Institution



Artists impression of Millennium Hotel

Location:

Tbilisi is the capital and largest city of Georgia with a population of approximately 1.5 million people. Since 2003, Tbilisi has enjoyed a period of stability leading to a real estate boom. Foreign tourist numbers have also increased. According to the Georgian Border Control statistics, tourism has risen by 56% from 2011 to 2012. As a result, many new projects have been undertaken and hotel room space is at a premium. The Millenium Hotel is one such expansion project and is located in the heart of the city centre of Tbilisi.



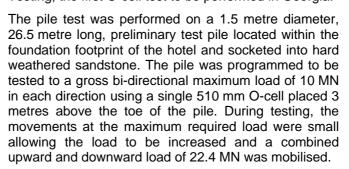
The old city of Tbilisi requires new infrastructure and modernisation but a requirement is that the pattern of the old city should not be damaged by new development. The Millenium project includes both the construction of a new 130 metre tall tower and the reconstruction of the old Russian ministry building. Fugro LOADTEST is delighted to have been involved as part of a modern solution to redevelop the old city of Tbilisi into a city for the future.



Construction Site

Project Summary:

The load testing program as specified by consultants from the Lenavi Institution required test one pile to be tested by the Osterberg (O-cell) Bi-directional Load Testing, the first O-cell test to be performed in Georgia.



Using our patented automated loading system a stable and constant load application was achieved, provided excellent load-movement and time-movement measurements to be reported.

The Osterberg bi-directional static load testing technique is the ideal method of load testing for rock sockets, where the load can be applied directly in the rock, allowing a better assessment of soil parameters within the load bearing strata.



Piling in Progress



The single O-cell assembly

