

Project Location:

Dubai, United Arab Emirates

Main Contractor:

APCC Vibrofoundations JV.

Client:

Kerzner - Istithmar

Project period

Nov. 2004 – Mar. 2005

Method Applied:

470,000 m² Vibro
Compaction, up to 14 m
deep, installed in a triangular
grid of 4.70 m (15 ft 6 inch).
The grid was chosen after an
extensive trial program with
CPT testing and measurement
of subsidence settlements due
to compaction (usually in the
range of 6.5 to 9%).

Technical Requirements:

The man made originally loose sand fill had to be compacted to prevent soil liquefaction for an earthquake of $M_w = 6.0$ and $a_{max} = 0.15 g$. Furthermore compaction was required to reduce total and differential settlements under building loads.



View of a 3D model of the finished Atlantis Hotel on the Palm Jumeirah.

Quality Control Testing:

Cone Penetration Tests (CPTs), supported by digital process data from Vibro rigs.

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