



Sustainable Technology

Dynamic Compaction

Dynamic Compaction is a ground improvement technique that utilizes repeated applications of the impact delivered by a large mass (15-40 tonnes) free falling from heights of 10-40 metres to generate high energy waves within the ground to cause compaction and densification of the ground.



The depth of effective densification is a function of the energy imparted per impact, whereby depths in excess of 16 metres can be compacted; further the treatment is delivered by multiple impacts at each location on a grid pattern. The overall design of the treatment is in accordance with the total energy imparted per square metre of site area.

This technique is appropriate for application to non cohesive soils and fills and serves to improve the bearing capacity and settlement characteristics of the ground for the foundations of buildings and in civil applications, embankments and where loose soils can be improved to render them serviceable.



Dynamic Compaction provides a very economical ground improvement method, where its application is appropriate.



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