Case Study

Tenax HM4 & Ekotex 07

Rochester Riverside Multistorey Car Park

Rochester Riverside is a flagship regeneration site and is one of the largest brownfield opportunities in the Thames Gateway. Adjacent to the new station development the local authority proposed to construct a multistorey car park to accommodate passenger requirements. The underlying soils were sandy clays with a poor bearing capacity, consequently the design required deep piled foundations. The Spencer Group contacted Geosynthetics Limited requesting a preliminary calculation for a reinforced working platform for installation of the piles.

Utilising the Tenax Reinforced Soil Raft concept we were able to determine a reduction in the thickness of granular material by the introduction of geogrids. Based on the soil properties and the loading information for the Soilmec SF120 rig we were able to calculate a platform thickness of 740mm utilising one layer Tenax HM4 at the base and one layer Tenax HM3L 370mm above. A non woven Ekotex geotextile was employed as a separation layer on the formation.

“The engineering support, sales team and product availability were very helpful in delivering this phase of the construction programme on time.”

Mubanga Nyaywa, Construction Manager