

Case Study

Tenax HM4 & Ekotex 07

Rochester Riverside Multistorey Car Park



Location:

Rochester Riverside
Multistorey Car Park
Cory's Road off Gas House
Road
Rochester
Kent
ME1 1PB

Project Description:

Reinforced working platform
for installation of the piles
at Rochester Riverside
Multistorey Car Park



Technical Requirements:

- Reinforced working platform over sandy clay soils
- Preliminary calculations

Client:

Medway Council

Contractor:

The Spencer Group

Merchant:

Keyline Builders Merchants

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.

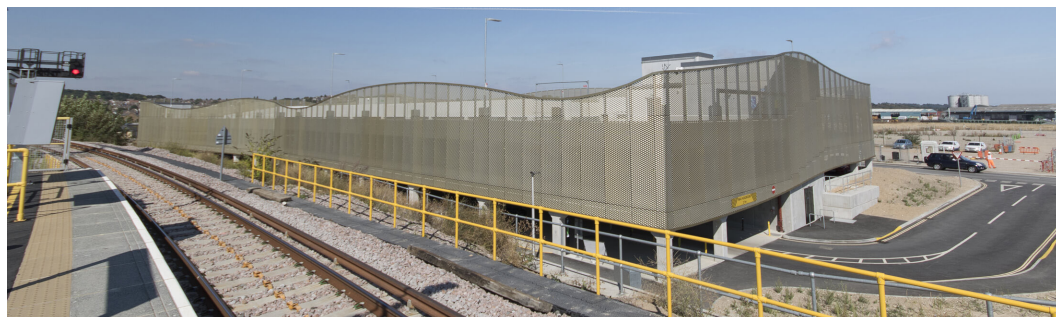
Utilising the Tenax Reinforced Soil Raft concept we were able to determine a reduction in the thickness of granular material by the introduction of geogrids. Based on the soil properties and the loading information for the Soilmec SF120 rig we were able to calculate a platform thickness of 740mm utilising 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.



Platform supporting SF20 Rig and Tracked Plant



Base layer of Tenax HM4 and Ekotex 07 Separation layer



Completed car park



Geosynthetics
Engineered Solutions
Fleming Road
Harrowbrook Industrial Estate
Hinckley
LE10 3DU
Tel. 01455 617 139
sales@geosyn.co.uk
www.geosyn.co.uk

"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



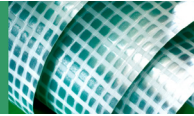
Geosynthetics
Engineered Solutions

WWW.GEOSYN.CO.UK
CALL: 01455 617139

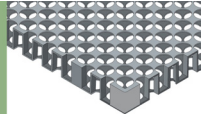
2 in 1
Landscaping Fabric



Gas Membrane
Radon, CO2, Methane,
Hydrocarbon Control



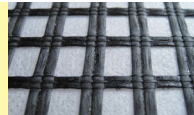
RoofCell
Sub Surface Drainage
And Water Storage



Alert®
Contamination Indicator



Geoglas®
Asphalt Reinforcement



Stratagrid
Soil Reinforcement Geogrid



AquaBlock®
Water Containment Liners



Geomembrane
Impermeable Membrane



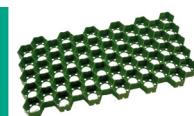
Strataweb
Slope Stabilisation



Bentotex® GCL
Geosynthetic Clay Liner



Golpla
Grass & Gravel Paving System



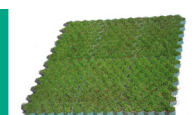
T-Block
Modular Retaining System



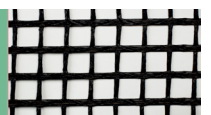
Cellweb® TRP
Tree Root Protection



Golpla Pregrown
Ready To Lay Paving System



Telegrid
Woven Polyester Geogrid



DuoDrain®
Composite Drainage Product



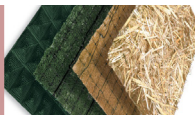
Interlock
Extruded HDPE Geogrids



Televev
High Strength
Woven Geotextile



Erosion Control
Comprehensive Range



Knotblock®
Japanese Knotweed Barrier



Tenax
Soil Reinforcement Solutions



Ekotex®
Non Woven Geotextile



Landlok
Turf Reinforcement Mat



Total Traffic Exopave
Heavy Duty Paver



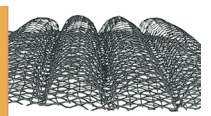
Fiberforce®
Equestrian Geotextile



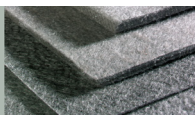
Nicospan
Erosion Control



Trinter
Erosion Control Mat



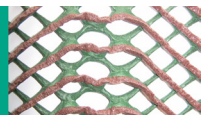
Fibertex
Non Woven Geotextile



Rhyno®
Woven Geotextile



Turfmesh
Grass Reinforcement



Flexitex
Textile Shuttering



RockBox
Gabion Mattresses



RootBlock
Root Barrier

