

Case Study

Tenax HM3L

Muirhall South Wind Farm



Location:

Muirhall Farm
Auchengray
Lanark
ML118LL

Project Description:

Construction of 1.5km access tracks and crane hardstandings for the installation of three additional turbines.



Client:

Muirhall Energy Ltd

Contractor:

Jones Bros Ruthin Civil
Engineering limited

Muirhall South is an extension of the existing Muirhall Wind Farm in South Lanarkshire. The scheme comprised the construction of 1.5KM access tracks and crane hardstandings for the installation of three additional turbines. The proposed turbines have a height of 147m making them amongst the tallest onshore turbines in the United Kingdom.

The underlying soils were very weak organic soils and in order to accommodate both construction traffic and material deliveries a reinforcement solution was required. The introduction of a geogrid directly onto the formation allowed the thickness of granular material to be reduced whilst still providing the required bearing capacity. This is achieved by spreading the loads across the width of the geogrid/subbase and ensuring that deformations are minimised.

Jones Bros elected to use Tenax HM3L this provided a range of benefits to the construction.

- HM3L is produced in a 5.3m wide roll which eliminated the need to cut and overlap geogrids to achieve a 4.5m running width.
- HM3L is an extruded Polypropylene geogrid with excellent resistance to installation damage.
- HM3L has a large aperture ideal for integrating with 6F2/6F5 soils.




Our designer was keen to utilise an extruded geogrid, the Tenax HM3L was readily available and provided a host of benefits to speed up our construction programme.

Mike O'Conner, Project Manager



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

Rhyno®
Woven Geotextile



Interlock
Extruded HDPE Geogrids




Golpla Pregrown
Ready To Lay Paving System



Landlok
Turf Reinforcement Mat



Nicospan
Erosion Control



Geomembrane
Impermeable Membrane




Golpla
Grass & Gravel Paving System



DuoDrain
Composite Drainage Product




RockBox
Gabion Mattresses



2 in 1
Landscaping Fabric



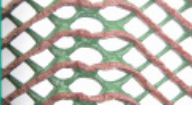
Gas Membrane
Radon, CO2, Methane,
Hydrocarbon Control



Alert
Contamination Indicator



Turfmesh
Grass Reinforcement




Trinter
Erosion Control Mat




Tenax
Soil Reinforcement Solutions



GeoGlas
Asphalt Reinforcement



Cellweb
Tree Root Protection



Flexitex
Textile Shuttering



Bentotex GCL
Geosynthetic Clay Liner



Envirogrid
Cellular Confinement Grid



Fibertex
Non Woven Geotextile



Telegrid
Woven Polyester Geogrid



Ekotex
Non Woven Geotextile



East Coast
Biodegradable
Erosion Control



RoofCell
Sub Surface Drainage
And Water Storage




Geosynthetics
Engineered Solutions

Televev
High Strength
Woven Geotextile



T-Block
Modular Retaining System



RootBlock
Root Barrier