

Case Study

Liner protection for a deep landfill cell

Project:	Clifton Marsh LFS, Lancashire
Client:	SITA UK Limited
Consultant:	Terraconsult Ltd
Contractor:	Ascot Environmental Ltd Masterlay Ltd
Product(s):	TERRAM™ Robust geotextile: RG25 (18,000m ²) RG31 (22,400m ²)

In June 2010 TERRAM RG25 and RG31 geotextiles were supplied to Ascot Environmental as part of their contract with client SITA UK to construct Cell 3A at their Clifton Marsh landfill site near Preston, Lancashire. Specialist installer Masterlay Limited installed the geotextiles at the base of a new cell to protect the geomembrane liner. 20/40mm limestone was used as the drainage layer above the geotextiles.

Prior to supply of the material, the TERRAM geotextiles had to pass independent Environment Agency Cylinder Testing to replicate the waste depths at the base of the new cell. Due to varying maximum waste depths across the basal area, 2 different grades of TERRAM RG geotextile were supplied thereby value engineering the project. TERRAM RG25 was installed where waste depths were to be up to 10m whilst the RG31 was located in areas where the waste depth was to be 20m.



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