

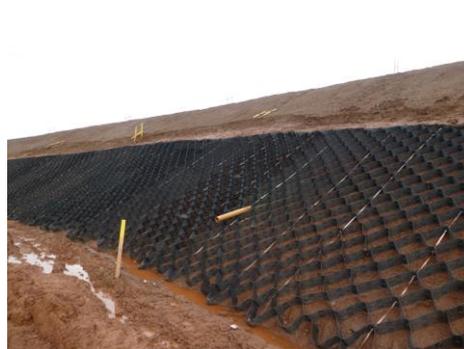
Case Study: Embankment Stabilisation, Crediton Industrial Link Road A377 Devon Products: Geoweb for Slope using Tendon



The approved route of the new link road required 100,000m³ of material to be excavated to form a cutting so extensive embankment stabilisation would be required. Geoweb was selected for these works as the steep angle of the cutting meant that the patented Geoweb tendon load transfer system was ideally suited to provide safe, secure fixing. The Tendon was securely anchored at the crest of the embankment by ATRA Anchors as specified in the Presto Geosystems installation guide. Tendon was threaded through the I-SLOT® in the Geoweb panels as they were expanded down the slope, and secured again at the toe.

ATRA Tendon Clips are load transfer devices to transfer slope gravity forces from the Geoweb® cell wall to the tendon. The device engages securely with the Geoweb cell wall, allowing hands-free connection while securing the tendon. Once the 4500m² of Geoweb was securely fixed to the slope infilling could commence using site won material due to the reddish colour characteristic of the underlying sandstone. Infill was carried out from the crest of the slope to the toe in accordance with Presto Geosystems installation guide. Controlled overfilling of cells was required to allow for consolidation and compaction of the infill.

Geoweb consists of textured, perforated cell walls with diamond shaped indentations moulded into the surface of the cell walls providing optimum interlock between cell walls and infill materials while significantly improving drainage characteristics. This was an important factor in considering Geoweb for this particular site due to the positioning of the cutting and consequent water flow issues.



Contractor
bam
nuttall

Client
Devon
Highways