



Tensar case study Ref 061

Tensartech GreenSlope System Heanor, Derbyshire, UK, 2001



Reinforced Soil Embankment - Heanor, Derbyshire

B E N E F I T S T O C L I E N T

Cost effective method of providing a steep, stable grassed slope between an existing housing site and a new retail development with restricted land take.

T H E P R O B L E M

After starting construction, it was found that the foundation level had to be lower than anticipated, requiring much steeper slopes. An additional problem was that the quantity of granular fill available on site was inadequate, so cohesive fill had to be used.

T H E S O L U T I O N

Tensar International provided an immediate re-design for the steep slopes using the Tensartech Greenslope System. With this system Tensar uniaxial geogrids are positively connected to a steel mesh facing, which in this case was lined with rolls of pre-grown turf. Cohesive fill was used over part of the embankment length.

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PROJECT DESCRIPTION

The project resulted in the construction of a grass face at 60° to the horizontal, with a height of up to 8.25m over a length of 165 metres. The structure was constructed from recycled fill materials, some cohesive, and has a design life of 60 years.

An access road was constructed over the top of the reinforced soil and a building placed immediately behind, resulting in a surcharge of 60kN/m². All designs and working drawings were prepared by Tensar International and checked by the clients engineer Waterman BBT Ltd in Leeds.



Construction was alongside the site boundary severely limiting access at the bottom of the slope.

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CONTRACT DETAILS

Consultant:

Waterman BBT/Tensar

Contractor:

TKL Earthworks

Client:

Amco Tolent Developments



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