

Tensartech GreenSlope System N8 Glanmire to Watergrasshill, Cork, Ireland 2002



Construction of 20m high Tensar reinforced soil slopes.

Tensar Case Study

BENEFITS OF THE TENSAR SOLUTION

Cost effective, stable, aesthetically pleasing steep slopes constructed in an area of restricted space.

PROJECT BACKGROUND

The presence of an existing stream at the toe of an embankment for a new road widening scheme meant the steepening of the 20m high embankment required to support new road and bridge construction.

THE TENSAR SOLUTION

Tensar International worked with W S Atkins in Cork to provide reinforced soil slopes ranging from 45° to 55°. The method of design using Tensar RE geogrids allowed a soft faced finish to be achieved to match existing natural surroundings.

TECHNICAL PROJECT DESCRIPTION

The upgrading of the N8 between Glanmire and Watergrasshill in County Cork, Ireland forms part of the National Development Plan by the National Roads Authority.

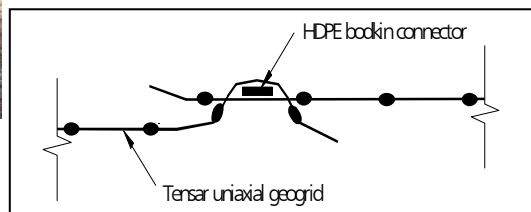
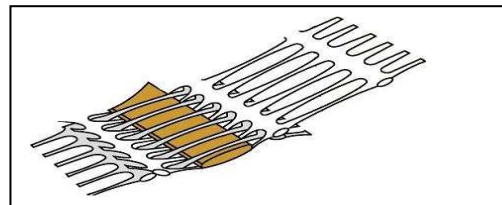
Tensor uniaxial geogrids were used by the Mowlem/Bowen JV to construct extensive 20m high, reinforced soil slopes to widen the existing carriageway for dualling. The use of the geogrid "wraparound" technique with the Tensor bodkin connection allowed the slope face to be constructed uniformly over the whole area. The geogrid face was lined with specific fine mesh which is able to retain the topsoil layer while allowing a hydroseeded mix to penetrate it. This technique produced a consistent grass covering.

The embankment was designed in accordance to the Department of Transport's advice note HA68/94.

Construction was carried out without the need for any formal shuttering. A large steel plate was mounted on an excavator. This plate acted as a simple former to provide temporary support to the geogrid wraparound face.



Consistent face profile achieved using the unique Tensor Bodkin connection



Tensor Case Study

CONTRACT DETAILS

Client:
National Roads Authority, Ireland.

Specified by:
WS Atkins, Cork

Contractor:
Mowlem/Bowen JV.



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