

## Case

# STUDY

**TENAX TT, T BLOCK & EKOTEX**  
Meadowside Development  
Retaining Wall



**MARKET SECTOR:**  
Commercial



**LOCATION:**  
Meadowside Development  
Ashburton, Totnes, TQ9 4JU



**CONTRACTOR:**  
Roadform Civil Engineering Co Ltd



**CONSULTANT:**  
Hydrock - Plymouth



**MERCHANT:**  
Keyline Limited - TauntonW

## The BACKGROUND

As part of the Section 278 works for the Meadowside housing development, a retaining wall was specified beneath the existing main road and access road into the scheme.

This retaining structure needed to also accommodate a vehicle containment barrier.

## Our Client's REQUIREMENTS

T Block facing vertical retaining wall to a maximum height of 5.4m

The initial design brief was to provide an aesthetically pleasing and cost effective alternative to a traditional reinforced concrete wall, whilst satisfying the requirements of the adopting authority.





## Our Value Engineered SOLUTION

**The Geosynthetics Engineering team prepared a technical recommendation and from this were able to demonstrate that a reinforced soil wall would meet the requirements and offer significant cost reductions over a concrete wall.**

The geometry of the site dictated that a vertical retaining wall to a maximum height of 5.4m would be required with a vegetated battered slope above. The T Block wall system was proposed to provide a maintenance free aesthetically pleasing finish to the structure.

The T Block wall system utilises the unique T Clip connector which provides a mechanical connection between the Tenax TT geogrid and the precast T Block. The strength of this connection is a factor in allowing the design of a value engineered reinforced soil retaining wall.

**“Geosynthetics were able to assist in providing a cost effective solution to our retaining wall requirements on this scheme. The T Block system was a well engineered system which assisted in ensuring the scheme was designed and delivered on time and within our budget constraints.”**

**RICHARD ONYON**  
Senior Surveyor for Bloor Homes  
Bloor Homes

