



## TensarTech® EcoCrib™ Earth Retaining System for Walls

### THE CHALLENGE

By specifying the TensarTech® EcoCrib™ System, engineers gain a crib wall facing which provides an aesthetically pleasing alternative to a timber or concrete finish whilst stability of the structure is provided by the geogrid reinforced soil mass. This is just one of several facing options engineers have when specifying TensarTech Earth Retaining Systems.

### INTRODUCING TENSARTECH® ECOCRIB™

TensarTech® EcoCrib™ is designed for the construction of reinforced soil walls with a 4:1 or 84° face angle. The crib facing is manufactured from 100% UK waste mixed polymer which is 100% recycled and 100% recyclable. Tensar uniaxial geogrids are connected to the crib facing using Tensar's unique high efficiency polymer bodkin to ensure that a positive connection is maintained between facing and geogrid reinforcement.

### THE ADVANTAGES OF TENSARTECH® ECOCRIB™

- ▶ The EcoCrib™ facing is fully resistant to ultraviolet light.
- ▶ Standard EcoCrib units can be supplied in various colours (normally brown).
- ▶ The EcoCrib facing offers a pleasing appearance similar to timber but with none of the shortcomings of timber i.e. will not rot or be affected by water or fungus infestation.
- ▶ Reassurance of a highly durable HDPE Tensar geogrid and bodkin.
- ▶ Design lives up to 120 years can be catered for.

### TENSARTECH® ECOCRIB™ SYSTEM INFORMATION

The TensarTech® EcoCrib™ System supplied as part of a Design and Supply package that includes EcoCrib facing, Tensar uniaxial geogrids and Tensar bodkins can when requested include an indemnified design that includes construction drawings and construction advice on-site via our UK civil engineering team. Although Tensar does not offer installation services, we can supply a list of installers who work countrywide on Tensar projects.



*The EcoCrib™ facing offers an aesthetically pleasing and durable facing that blends into the natural surroundings.*



*Tensar bodkin connectors offer high efficiency connection between crib stretcher and Tensar geogrid.*

## TENSARTECH® ECOCRIB™ TECHNICAL DATA

- ▶ EcoCrib™ units are class 3 fire resistant (wood is class 4) so it's harder to ignite than wood.
- ▶ HAPAS BBA Certificate 12/H194 with typical design lives up to 120 years.
- ▶ Potential to use a variety of site won granular fill types including DOT Class 6I/6J.
- ▶ Security of positive connection between EcoCrib unit and geogrid reinforcement using the Tensar high efficiency polymer connector.
- ▶ Supplied as part of a Design and Supply, TensarTech® Earth Retaining System services can include detailed design, professional indemnity, construction drawings and construction advice during installation on site.



Soon after construction demonstrating how TensarTech® EcoCrib™ suits site conditions.

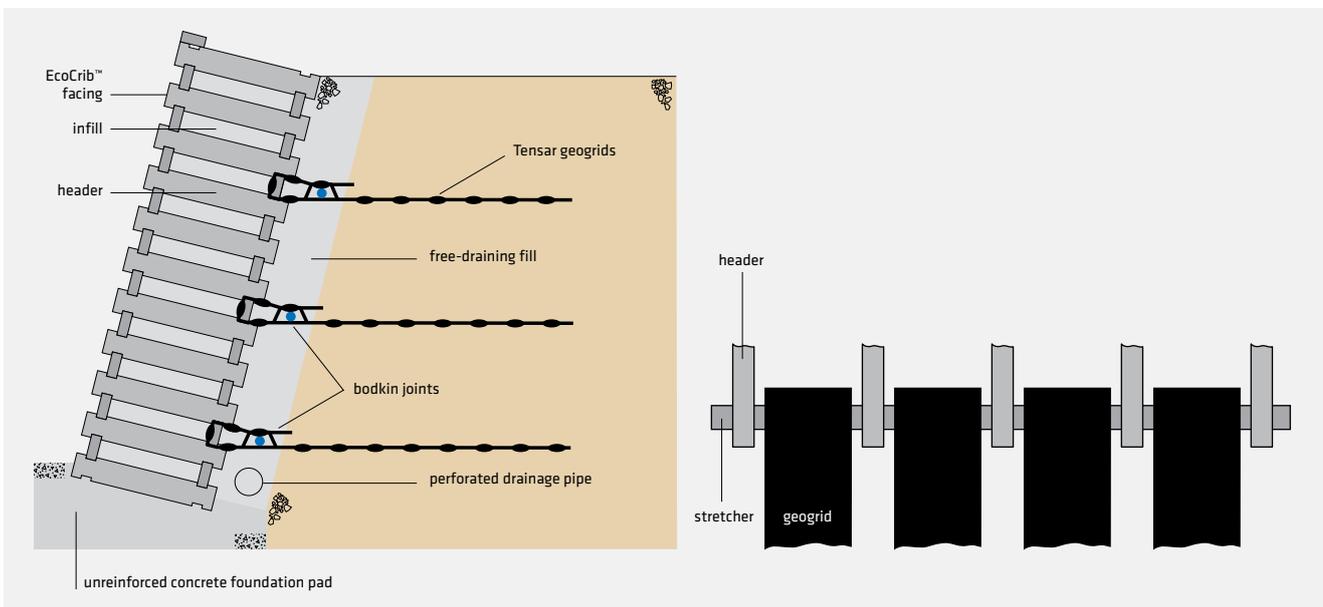
## CASE STUDY - PERSIMMON HOMES, MELLINGS FARM, WINSTANLEY THE CHALLENGE / PROBLEM

Requirement to maximise land use for house gardens close to a site boundary involving a height change of up to 5m. Need for an economic rapidly constructed option to ensure deadlines were met.

## THE SOLUTION

TensarTech® EcoCrib™ was chosen due to the rapid construction that requires a minimal foundation.

A total of 131m<sup>2</sup> was installed with a maximum retained height of 5m, over a linear length of approximately 25m. TensarTech EcoCrib offered a low visual impact solution whilst meeting the planning requirements of a crib structure. The wall was backfilled using standard construction plant and locally available fill. A reinforced soil structure was formed using Tensar uniaxial geogrids connected to the EcoCrib facing with the Tensar bodkin connector forming a high efficiency connection detail.



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