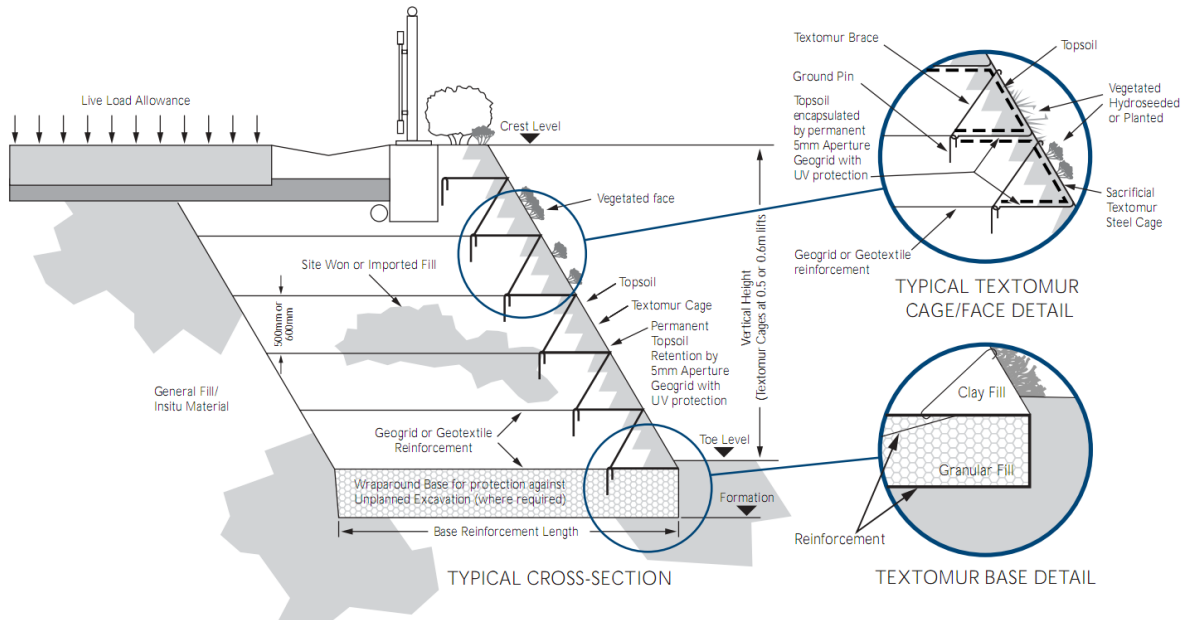


# TEXTOMUR

## Reinforced Soil System



The Textomur system is a tried and tested method for the construction of reinforced soil retaining slopes and walls as an alternative to reinforced concrete walls, sheet or bored piles, gabions etc. Phi Group has designed and constructed over 500,000 m<sup>2</sup> of the system in the last ten years.



### Textomur consists of five main elements:

1. Horizontal geotextile or geogrid reinforcing elements typically at 500mm or 600mm centres
2. Cohesive or granular fill material
3. Sacrificial steel mesh formwork
4. Geosynthetic facing fabric to permanently retain the topsoil facing layer
5. Grass seeded, planted or stone face finish

### Advantages:

#### ● Cost

Textomur can be built using suitable cohesive fill material. As a result there is no need either to import expensive granular fill or to remove and dispose of site excavated cohesive fill. This gives a substantial reduction in the overall cost of projects where cohesive fill is available on site.

#### ● Design

Textomur facing mesh is designed to accommodate consolidation and settlement of cohesive fills. The reinforcing geotextile/geogrid is installed so that there is no detrimental effect of differential settlement between the mesh, geosynthetic reinforcement and the general fill material. The steel mesh facing provides a rigid formwork which maintains a robust and high quality face alignment.

#### ● Construction

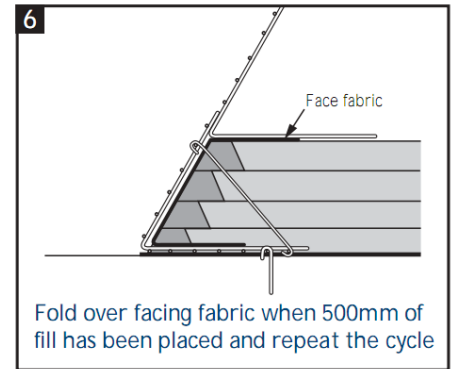
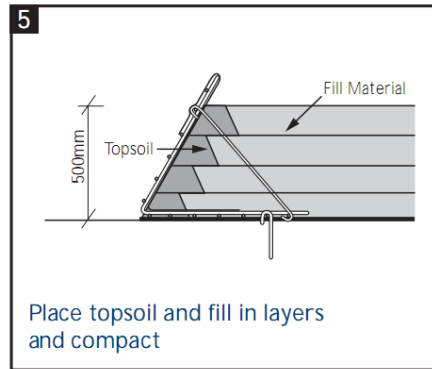
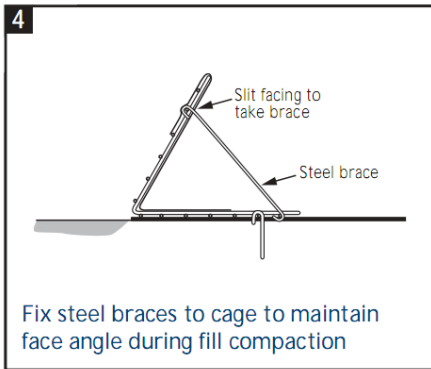
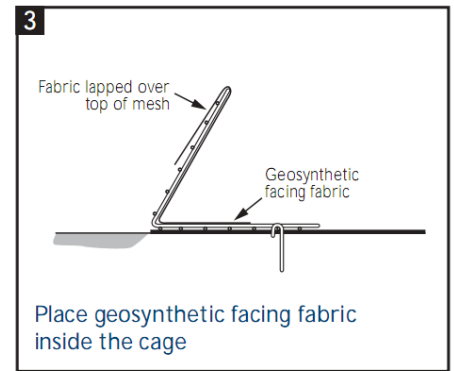
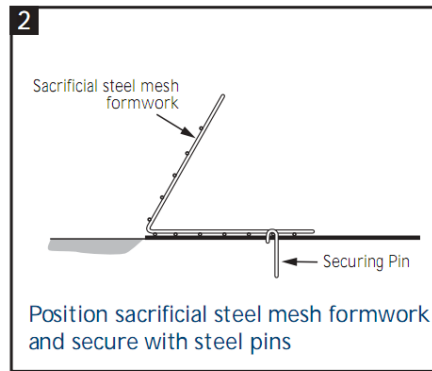
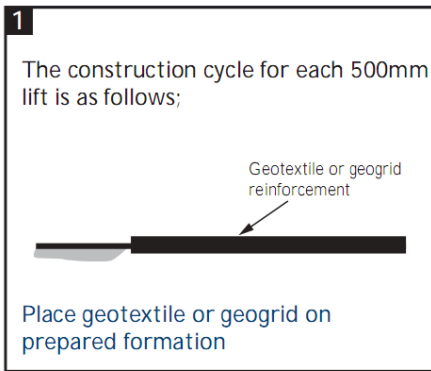
Construction is very rapid giving the associated programme advantage. No structural foundation is required. No temporary propping is required and construction is entirely from behind the face.

#### ● Flexibility

The steel mesh facing can be cut and bent to form seamless external and internal curves and sharp corners. Horizontal steps and planting berms can also be accommodated.

#### ● Face Finish

Various finishes can be used including:- planting with shrubs, grass or wild flower seeding and gabion style stone work.



The cycle is repeated until the required embankment or wall height is achieved. The face can be hydro-seeded or planted on completion.

Phi Group offers the design, supply and construction of Textomur for slopes and walls with face angles from 50° to 90°. The system can be built with two types of facing finish. For slope angles less than 65° the Textomur Green (grassed or planted) option is generally adopted. Textomur Stone (with a 'gabion' style finish) is used for structures greater than 70°.

#### Typical Applications are:-

- Forming steep faced cuttings and embankments for highway widening schemes.
- Strengthening railway embankments and cuttings.
- Providing environmental bunds to screen industrial buildings.
- Maximising available plateau space for commercial and industrial developments.
- Temporary slopes, walls and abutments
- Repairing failed slopes.

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