

**Greencell** is made up of alternatively joined geotextile strips to form a continuous square cellular mat section which is filled with earth, gravel or concrete and used to stabilise embankments, river banks, sand dunes, base courses and canals.

### PRODUCT SPECIFICATION:

- Manufactured from woven polypropylene tapes coated with polyethylene, with an ultimate tensile strength at low elongation. The above product is not affected by the alkalinity of concrete and is UV stabilised.
- The joints in the fabric are stitched with a high tenacity multi filament polypropylene thread.
- The walls are impermeable with one side textured and the other side smooth, thereby improving the friction and sheet strength of the concrete. As it is allowed to deform in the vertical plane it does not allow the blocks to punch through.
- Greencell is manufactured to the designer's specification and can be varied in terms of height, cell size, cell density and panel dimensions for specific applications.
- Cell walls can be perforated to allow for the free drainage of liquids.
- Please refer to the Greencell product data sheet for further details and product specifications.

### INSTALLATION PROCEDURE:

- Clear & grub site.
- Using suitable equipment, smooth and grade the site. Compact to maximum density.
- Lay Greencell over the prepared area ensuring that the tops of the cells are level with the surrounding terrain and that the highest section of the panel is secured in the lock trench at the top of the embankment or slope. **A specialist design service should be used for slopes that are steeper than 1:1.**
- Anchor the Greencell sections to the prepared surface with inverted shepherd's crook shaped steel stakes made from 10mm to 12mm reinforcing rod, or similar. Every alternative cell should be staked along the edge of each section to ensure that the system is well secured. **The stakes must be long enough to penetrate the prepared surface to a depth which ensures that the system is well anchored to the slope.**



**Before:**



**After:**

- Align and join the alternative cells of each Greencell using wire ties or staples to create a continuous cover over the site. Tension the cover from the highest to the lowest point of the slope by staking the bottom edge of the cover to ensure that the individual cells are fully open to receive the fill.
- Fill the cells of the entire Greencell cover with the selected material to give the required finish to the installation e.g. a top soil to promote vegetative growth, a 19mm to 53mm stone aggregate to promote drainage or concrete which provides a smooth water resistant finish. Fill that is comprised of soil, crushed stone or rock should be compacted to the maximum achievable compaction.
- In the case of concrete being used as a fill, the surface should be raked flush to the top of the cells. Note that other types of fill material, if filled to above the top of the cells, have a greater potential to be eroded and washed away.
- Short term stability of the covered area is achieved by planting a fast growing form of vegetation. Long term stability of the covered area requires the planting of a deep rooted form of vegetation. Surfaces can be initially stabilised with our Geojute SlopeSaver.



### GREENCELL SIZES:

Greencell is available in the following standard heights:

- 75mm, 100mm, 150mm, 200mm With the standard panel size of:
- 3m x 10m per panel

Having a nominal cell size of 212mm x 212mm or 200mm x 200mm

Non-standard customised sizes are available on request with respect to cell size, cell density, height and panel size.

### ADVANTAGES:

- Lightweight and quick
- Ease of Installation to install
- Long Lasting and tear resistant

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