



StrataWeb[®]

Installation Guidelines – Slope protection

StrataWeb[®] geocells are light weight but strong three dimensional honeycomb-like cellular confinement systems. StrataWeb[®] is fabricated from ultrasonically-welded HDPE strips that are expandable at site to form a rhomboidal structure.

1. Site preparation

Stone, debris, rank material, dead wood etc should be removed from the site. In order to remove undulation and ensure proper placement of StrataWeb®, the slope should be dressed and compacted properly.



2. Crest anchorage

The anchor trench should be excavated as per the size and shape required. A minimum distance of 500 mm should be provided between trench and slope edge; to ensure that the anchor trench does not fail in shear or the anchor mound material does not erode over the crest. There should be no flow of water; which results in erosion of anchorage.



3. Connections and placement

The J hook (plain mild steel rods) has to be installed with 50mm protruding above the ground. The anchorage should be done as per the detailed drawing submitted. The adjoining panels of StrataWeb® should be connected by Strata connectors as per the drawing in length & width. StrataCord should be passed through the perforation/slot prior to expansion of the StrataWeb® panels. The panel should be connected face to face or flap to flap.



4. StrataWeb® placement

The sections of StrataWeb® should be expanded in designed position. After laying StrataWeb® in the anchor trench, the trench is infilled with specified material. The StrataWeb® panels are then expanded in length down the slope in the prescribed manner. Care should be taken that the expanded area conforms to the specifications.



5. Infill

Infilling should commence from top and gradually progress towards the bottom in order to avoid stressing the system. To prevent possible damage to the system, the height of infill drop should be limited to 0.5 m. The StrataWeb® panels should be overfilled by 25 mm to 50 mm with sand, granular or top soil fills, and should also allow for settling and compacting of the material.



Soil fills should be lightly hand-tamped with a mechanical tamper. In case of concrete (grade shall be as specified on the drawing), the infill should overtop StrataWeb® just adequate to trowel smooth without the rim of StrataWeb® being visible.

6. Finished slope



Please note that the information above is given as a guide only. All sizes and weights are nominal figures and may vary to what is published. Strata Geosystems (India) Pvt. Ltd. will not be liable for damage caused by incorrect installation of this product. Final determination of the suitability of any information or material for the use contemplated and the manner of its use is the sole responsibility of the user and the user must assume all risk and responsibility in connection therewith. This field guide is provided as an aid to assessing the mechanical stabilization requirements in commonly encountered site conditions.