

StrataGrid™ SGB Biaxial geogrid – Installation Guidelines

i. General

The following guidelines give a detailed description of the steps needed to install StrataGrid™ Biaxial geogrids for pavement application.

ii. Preparation of the formation

1. The first step involves the preparation of the formation. This includes any further excavation required or any filling up of hollows in the formation and removal of any foreign objects (e.g. tree stumps).
2. The removal of vegetation or stripping of the topsoil is recommended prior to the installation of StrataGrid™ geogrid.



Figure 1 Preparation of subgrade

iii. Installation of StrataGrid™ geogrid

1. StrataGrid™ biaxial geogrids shall be laid directly on the compacted formation.
2. The StrataGrid™ geogrid rolls shall be unrolled and laid flat on the formation. Care shall be taken that the laid geogrid is free from any wrinkles.
3. The StrataGrid™ geogrid shall be stretched manually at intervals and shall be held in positions using deadweight until placement of backfill to maintain stretched condition of geogrid.
4. The StrataGrid™ geogrid shall be held in position by using temporary pins/sandbags or any means of temporary anchorage before placement of fill.
5. No vehicles shall be allowed to operate directly on the laid StrataGrid™ geogrid without placement of backfill material.



Figure 2 Laying of StrataGrid™ Biaxial Geogrid

iv. Overlapping of StrataGrid™ geogrid

1. Care shall be taken that the StrataGrid™ geogrids are overlapped in both the longitudinal and transverse directions. Overlaps in the longitudinal direction of geogrid (i.e. along the length of

geogrid) shall be minimum 300mm and the overlaps in the transverse direction of the geogrid (i.e. at the ends of rolls) shall be minimum 600mm.

2. Overlaps shall be oriented in the direction of the fill placement to avoid any uplift.

v. Placement and compaction of the fill material

1. The fill material shall be placed by the end tipping method so to prevent any damage to the installed StrataGrid™ biaxial geogrid by the construction vehicles.
2. The exact thickness of the first fill layer and the compaction method shall be specified regarding the compacted material and compaction level required at the site.



Figure 3 Filling of backfill material over StrataGrid™