Tensar® InterAx® Geogrids

Installation Guideline for Tensar® InterAx® geogrid

for stabilisation of granular fill over weak subgrades.

This Installation Guideline provides a step by step guide for Contractors installing Tensar® InterAx® geogrid supplied by Tensar® International or any of its appointed distributors. The guideline applies to both the permanent and temporary mechanical stabilisation of areas over which vehicular access is to be provided.

Contact Tensar International for specific advise.

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Subgrade Preparation

For a subgrade over which construction plant cannot safely traverse:

Tensar® InterAx® geogrid shall be laid directly on the site, having removed major protrusions such as rocks and tree and bush stumps and also having filled local hollows and depressions with the approved fill but otherwise retaining the vegetation and topsoil covering the site. The subgrade should be levelled as specified in the contract documents.

Placing Tensar® InterAx® geogrid

Heavy duty gloves should be worn when handling Tensar® InterAx® geogrid.

Tensar® InterAx® geogrid may be placed on the subgrade either parallel to the road centre line or in the transverse direction. If a geotextile separator has also been specified to accompany the Tensar® InterAx® geogrid, then the geogrid must be placed above the geotextile (so that the placed fill can interlock with the apertures of the geogrid).

Overlaps

The width of overlap between adjacent Tensar® InterAx® geogrid lengths is dependent upon the grading and thickness of fill and the stiffness of the subgrade.

The minimum overlap shall be 300mm and the maximum normally required shall be 600mm or as directed within the Contract Documents. Overlaps must be secured and maintained during the filling operation. This is generally achieved by placing small heaps of granular fill locally over the overlaps ahead of the main filling operation.

Granular Fill

A well graded aggregate fill is suitable for the unbound granular fill layer.

Reference to design documents and/or project drawings for specific fill grading requirements. Contact Tensar International or a local distributor for advice on suitable fill types.

Placing Granular Fill

Lorry loads of granular fill material shall be tipped into stockpiles on placed fill and not tipped directly onto the Tensar® InterAx® geogrid.

The fill stockpiles shall be spread by mechanical plant which causes the aggregate to cascade onto the geogrid, such as an excavator bucket or dozer with an opening bucket. Fill shall be spread in layers of not less than 150mm thickness. The initial layer thickness to be placed on the geogrid shall be specified in the contract documents along with the maximum layer thickness. In the stabilisation of wide and broad areas, fill shall be spread such that the first layer advances across roll widths rather than along roll lengths. Care shall be taken to avoid damage to the Tensar® InterAx® geogrid. No traffic or site plant shall be permitted to travel on the geogrid prior to covering them with a minimum 150mm layer of granular fill.

Compaction

Compaction of the well graded aggregate should be carried out to achieve levels of compaction to suit project/contract requirements.

Compaction of other fills should be carried out as specified in the contract documents. Over exceptionally soft subgrade the degree of compaction applied to the lowest layer of fill may have to be reduced from standard requirements. Details shall be specified within the Contract Documents.

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