DESIGNED TO ENHANCE SOIL STABILISATION AND PAVEMENT PERFORMANCE

GEOFABRICS GEOGRID TRIAXIAL

INSTALLATION GUIDE

Geofabrics® Geogrid™ Triaxial is a high-performance, multi-axial geogrid engineered for soil stabilisation and ground improvement in road, rail and heavy-duty pavement applications.

IMPORTANT INFORMATION

RESPONSIBILITIES

The contractor is fully responsible for carrying out the works in accordance with the design documents, technical specifications, and contract documents (which are not provided to Geofabrics). To support the contractor, Geofabrics' recommendations in this guide do not absolve the contractor from adhering to all applicable safety regulations and procedures.

Geofabrics accepts no liability for any inaccuracies or omissions in the execution of the works, nor for any resulting consequences.

It is the responsibility of both the contractor and the client to ensure that all site personnel involved in the work have access to this guide and are familiar with its contents.

SCOPE

This work shall consist of handling and installation of Geofabrics Triaxial geogrid for use in subgrade stabilisation applications.

MATERIAL REQUIREMENTS BEFORE STARTING

PAVEMENT GEOGRID

Geofabrics Triaxial geogrid is formed by drawing a punched sheet of polypropylene to form a unique hexagonal structure with triangular apertures that confine and interlock with aggregate as required in the specification and contract documents. The polymer is stabilised to resist ultraviolet degradation and all forms of biological and chemical degradation normally encountered in pavement applications.

IDENTIFICATION, STORAGE AND HANDLING

Geofabrics Triaxial geogrids are supplied with a circumferential tape containing the product label for identification. Upon delivery, check all rolls to ensure the correct grade has been received and that they are free from damage. Store away from mechanical operations to maintain product integrity. For long-term storage, elevate the geogrid on dunnage and cover it to protect from ultraviolet radiation.

INSTALLATION

SUBGRADE PREPARATION

Subgrade shall be cleared free of deleterious and unsuitable material and excavated to the specified subgrade or undercut elevation.

Remove any large roots or sharp objects that could damage the geogrid and refill any voids with an approved fill where required.

The surface of the subgrade should be relatively smooth and level and depressions or humps greater than 150 mm should be filled or graded out.

PLACING GEOGRIDS

The triaxial geogrid shall be installed in accordance with the lines and grades as shown on the construction plans and specifications. It shall be laid flat and smooth directly on the prepared subgrade. If a geotextile separator is specified with the geogrid, the geogrid should be placed on the geotextile. All wrinkles and folds shall be removed. Adjacent rolls should be overlapped a minimum of 300 mm along their sides and ends, or as specified in the contract documents. Overlaps should be maintained during the filling operation. This can be achieved by placing shovel loads of fill over the overlap ahead of the advancing fill.

FILL PLACEMENT

Truckloads of the approved aggregate fill shall be end dumped into stockpiles and then spread onto the geogrid in 200 – 300 mm loose lifts or to a minimum depth as specified in the contract documents, using an excavator or bulldozer in a manner that cause the aggregate to cascade onto the geogrid.

Construction equipment is not allowed to operate directly on the laid-out geogrid prior to backfilling. In addition, turning of construction equipment shall be kept to a minimum to prevent displacement of fill and damage to the geogrid.

COMPACTION

Standard compaction methods may be used unless the subgrade is very soft or sensitive. In such cases, static compaction using a smooth drum roller is considered prudent for the immediate layer over the subgrade.

Once a stable working platform has been achieved, compact the aggregate fill in accordance with project specifications. Unless otherwise instructed by the engineer, the aggregate shall generally be compacted to a minimum of 95% of the maximum dry density.

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