



TITAN

BUILD YOUR LEGEND

Installation Guide

Wicking Geogrid Composite

For Base Reinforcement

WickGrid™

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WICKGRID™

Storage Information:

- Storage location should preferably be dry.
- If stored outdoors, do not remove the waterproof covering until the time of application.

Site Preparation:

- Debris, stumps, and other large plant growth, etc. should be removed from the site and a clean level surface should be formed.
- Care should be taken to avoid disturbing any surface crust overlying softer soil. In these cases, the geogrid should be placed directly on the unprepared subgrade.
- The fill material selected should generally be the graded material.
 - It is best to have the graded filter analysis done by the Geotechnical Engineer.
- For additional information, contact your local Titan representative.

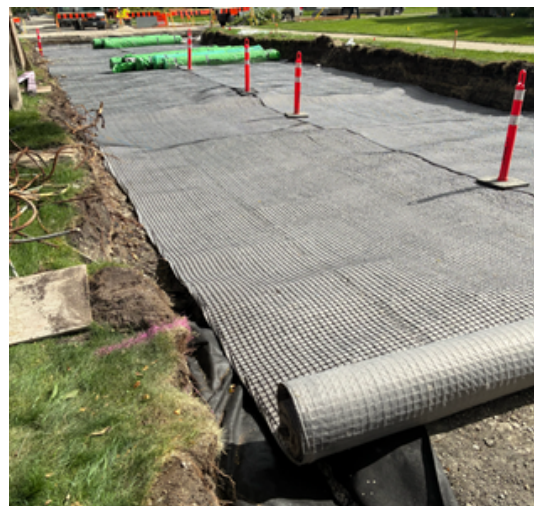
Installation:

Note: For safety reasons, it is recommended that workers wear gloves and safety glasses while handling geogrid.

- Place geogrid in position and manually roll it out over the subgrade.
- Overlap the adjacent geogrid rolls in accordance with Table 1: Recommended Overlaps, below.
- Adjacent rolls should simply be overlapped and do not need to be tied together.
- Geogrid corners may be held down with shovelfuls of fill, sandbags, etc.

Table 1. Recommended Overlaps

Soil Type	CBR (%)	Overlap (mm)
Firm	> 3	400
Soft Ground	1-3	500
Very Soft Ground	<1	700



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Termination of WickGrid™:

- Termination of the geogrid composite should be handled with care in order to ensure optimum performance.
- Termination of the geogrid composite should adhere to the following options:
 - An existing/installed subdrain system that may include a 150mm perforated pipe. The WickGrid is to terminate above the subdrain.
 - By exposing the ends of the WickGrid to daylight (daylighting). In this scenario, it is recommended to include 300-400mm of exposure of the geotextile. However, it may not be advisable to leave the geosynthetic exposed due to risk of vandalism, fire, etc. In this case, it is recommended to cover the exposed ends of the geosynthetic with clean gravel, riprap, etc.
 - Another suitable termination method is to be adopted based on site conditions.

Note: A slope of 2% may be considered for the surface of the subgrade and base material to improve drainage properties at termination.

Dumping, Spreading Fill & Compaction:

- Do not operate equipment directly on the geogrid over soft ground.
- Thin fill lifts over soft subgrades may not be sufficient to support equipment. An initial lift of no less than 150 mm is required.
- For very soft conditions, the required fill thickness is a function of subgrade strength and construction procedure.
- Usually, it will be significantly greater than 150mm.
- Over relatively competent subgrades (CBR>2), fill may be dumped over ground that bears its weight and then pushes out over the geogrid.
 - Work from stronger to weaker subgrade areas.



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Dumping, Spreading Fill & Compaction Cont'd:

- The dozer blade should be gradually raised as the fill is pushed out over the Titan geogrid. This will cause much of the fill to rollout onto the geogrid and will reduce stress on the subgrade.
- Back dump subsequent loads onto the leveled fill and advance forward over the fill by spreading with a dozer, and proceed in this cascaded fashion.
- Be aware of the directions of the geogrid overlap. Do not work against the pattern.
 - If the wrinkles or waves develop in the geogrid, they will usually roll forward with the fill and out at the end of the geogrid roll.
- The fill material over the geogrid should be well compacted to a minimum of 95%, Proctor.
 - Standard compaction methods can be used.
 - If the soils are very soft, static rather than vibratory compaction should be used. Static compaction is normally accomplished with a light roller and moisture. Water spray is especially efficient with sand fill.

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