



TITAN

BUILD YOUR LEGEND

Installation Guide

Geogrid

For Base Reinforcement

Swamp Grid™

INSTALLATION GUIDE

SWAMP GRID™

Storage Information:

- The 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 leveled 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.

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

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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 150mm 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 pushed out over the geogrid.
- Work from stronger to weaker subgrade areas.
- 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 roll out onto the geogrid and reduce stress on the subgrade.
- Back dump subsequent loads onto the leveled fill and advance over the fill by spreading with a dozer and proceeding 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.

Static rather than vibratory compaction should be used if the soils are very soft. Static compaction is normally accomplished with a light roller and moisture. Water spray is especially efficient with sand fill.

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Titan Environmental Containment | Titan Environmental USA

Toll free: 1-866-327-1957 | info@titanenviro.com | [TitanEnviro.com](https://www.TitanEnviro.com)

