



Installation Guide

Geogrid

For Slope/Embankment Reinforcement

Pyramid Grid®
Uniaxial Geogrid

INSTALLATION GUIDE

PYRAMID GRID® UNIAXIAL GEOGRID

Preparation & Protection:

- Contractor should check each style of the Pyramid Grid® supplied by Titan and ensure that the right material has been received.
- Pyramid Grid® during storage should be protected from temperatures greater than 60°C and all deleterious materials that might otherwise affect the performance of the Pyramid Grid®.
- Pyramid Grid® has black PVC saturation coating to enhance further chemical, mechanical, as well as ultraviolet protection. However, follow Titan's recommendations regarding protection from direct sunlight.
- Debris, stumps, and other large plant growth etc. should be removed.
- For additional information, contact your local Titan representative.



Installation Details:

- Titan can provide, on request, a qualified and experienced supervisor to offer site assistance at the start of the installation to train the contractor and engineer in the right construction/installation techniques, in accordance with the prior agreement with the contractor.
- Foundation soil shall be excavated to the lines and grades as shown on the drawings or as directed by the engineer. Over-excavated areas shall be filled with compacted backfill material. As a minimum, foundation soil shall be successfully proof rolled or inspected by the engineer prior to backfill and Pyramid Grid® placement.
- Pyramid Grid® should be laid at the proper elevation and orientation, as shown on the construction drawing or as directed by the engineer. The contractor should verify correct orientation (**MD – machine direction of the roll**) and use the right Pyramid Grid® style as per the design.
- Pyramid Grid® may be temporarily secured in place with staples, pins and sandbags or backfill as required by fill properties, fill placement procedures, or weather conditions, or as directed by the engineer.
- Pyramid Grid® wider than 2.13m (7 ft.) should be staked on 3.08m (10 ft.) centres along the roll edges to prevent wrinkling or other distortion of the reinforcement.
- Primary geogrid may be overlapped to form splices in the MD strength direction. The minimum overlap should be 0.9m (3 ft.) Splices should not be used within 6 ft. of either end of the reinforcement layer. **No overlapping is required between adjacent rolls.**



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Installation Details Cont'd:

- Secondary geogrid should be overlapped a minimum of 76.2mm (3 inches) along roll edges parallel to the reinforcement direction. Connections should not be made in the reinforcement direction.
- Backfill material should be placed in lifts and compacted as directed in the backfill section. Backfill should be placed, spread and compacted in such a manner that minimizes the development of wrinkles in and/or movement of the Pyramid Grid®.
- Construction equipment should not be allowed to operate directly on the top of the exposed geogrid. Normally, a thickness of 152.4mm (6 in.) is required prior to the operation of tacked vehicles over the geogrid. Turning of vehicles should be kept to a minimum. Sudden braking and sharp turning should be avoided.

Disclaimer: The information contained herein is to the best of our knowledge accurate, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept any liability for any loss or damage, however arising, which results directly or indirectly from use of such information, nor do we offer any warranty or immunity against patent infringement.

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