

Titan Geogrid Road Calculator FAQ

About the Tool:

Q: What is the Titan Geogrid Road Calculator?

A: The Titan Geogrid Road Calculator is a free online design tool that helps users evaluate geogrid-reinforced road sections for a variety of access road and haul road applications. By entering project-specific information, users can quickly assess road section requirements and identify opportunities to optimize aggregate thickness and overall project costs.

Q: Who should use this calculator?

A: The calculator is designed for:

- Contractors
- Civil engineers
- Consultants
- Developers
- Municipalities
- Mining and industrial project teams

Anyone responsible for designing, constructing, or budgeting roadways over challenging subgrade conditions can benefit from the tool.

Q: What types of roads can be designed using the calculator?

A: The calculator can be used for a variety of applications, including:

- Temporary access roads
- Construction roads
- Haul roads
- Forestry roads
- Oil and gas access roads
- Utility access roads
- Working platforms
- Permanent low-volume roads

Q: Is the calculator free to use?

A: Yes. The Titan Geogrid Road Calculator is free to access and use. Users can generate preliminary design results without creating an account. To receive advanced design outputs and a detailed PDF report, simply provide your name and email address, and the report will be delivered directly to your inbox.

Inputs & Design Parameters:

Q: What information do I need before using the Calculator?

A: To generate a road design recommendation, you may need information such as:

- Subgrade strength (CBR)
- Traffic loading
- Road dimensions
- Design life
- Aggregate properties
- Project-specific requirements

Providing accurate project data will result in more reliable recommendations.

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Q: What is CBR and why is it important?

A: California Bearing Ratio (CBR) is a measure of soil strength and is one of the most important inputs for road design. Lower CBR values indicate weaker soils that typically require additional structural support or reinforcement.

The calculator uses CBR values to help determine the required aggregate thickness and geogrid reinforcement requirements.

Q: What if I don't know my CBR Value?

A: If a site-specific CBR value is unavailable, geotechnical testing is recommended for the most accurate design. If testing has not yet been completed, Titan's technical team may be able to assist with estimating a reasonable design value based on available project information.

Q: Can the calculator be used for soft soil conditions?

A: Yes. Geogrid reinforcement is often most beneficial on weak subgrades where aggregate stabilization and load distribution can significantly improve roadway performance.

Results & Performance:

Q: What do the calculator results show?

A: Depending on the project inputs, results may include:

- Recommended road section
- Suggested Titan geogrid product
- Aggregate thickness requirements
- Comparison between reinforced and unreinforced sections
- Potential material savings

Q: How accurate are the results?

A: The calculator is based on established road design methodologies (AASHTO & Giroud-Han) and engineering principles. Results are intended to provide preliminary design guidance and project planning support.

Actual project performance will depend on site conditions, construction practices, material quality, and other project-specific factors.

Q: Does the calculator replace an engineered road design?

A: No. The calculator is intended as a planning and evaluation tool only. It does not replace professional engineering judgment, project-specific geotechnical investigations, or detailed engineered designs where required.

Q: Can I compare reinforced and unreinforced road sections?

A: Yes. The calculator allows users to evaluate the potential impact of geogrid reinforcement and compare roadway section requirements against conventional aggregate-only designs.

Q: How much aggregate can geogrid save?

A: Aggregate savings vary depending on subgrade strength, traffic loading, and project requirements. In many applications, geogrid reinforcement can reduce aggregate requirements while maintaining roadway performance.

The calculator will estimate potential reductions based on the project inputs provided.

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Product Selection:

Q: Which Titan geogrid should I use?

A: The calculator does not recommend a single product. Instead, it analyzes your design inputs and provides performance results for applicable Titan geogrid solutions, allowing you to compare options and determine the best fit for your project. For assistance selecting the optimal product, contact a Titan Technical Specialist.

Q: Does the calculator recommend different geogrid options?

A: Depending on the project requirements, the calculator may identify multiple geogrid solutions that meet the design criteria. Users can then evaluate the options based on performance objectives and project constraints.

Q: Why was a specific geogrid selected?

A: The calculator does not select or recommend a single geogrid product. Based on the project inputs provided, it identifies Titan geogrid solutions that meet the specified design requirements, allowing you to compare options and determine the best fit for your application.

Practical Application:

Q: Can I download or share my results?

A: Yes. Results can be downloaded and shared for project planning, budgeting, and internal review purposes.

Q: Can I use the calculator for project budgeting?

A: Yes. The calculator can help estimate aggregate quantities and evaluate potential cost savings associated with geogrid reinforcement, making it a valuable budgeting and planning tool.

Q: Does the calculator provide installation guidance?

A: The calculator focuses on road design recommendations. For installation guidance, product specifications, and best practices, please refer to Titan's technical resources or contact our team directly.

Q: What should I do if my project falls outside the calculator's limits?

A: If your project includes unusual loading conditions, complex site constraints, or parameters outside the calculator's design range, contact Titan's technical team for project-specific assistance.

Technical Support & Next Steps:

Q: Can Titan review my project?

A: Yes. Titan's technical specialists can review project information and provide guidance on geogrid selection, road design considerations, and construction recommendations.

Q: Can I get a project-specific recommendation from Titan's technical team?

A: Absolutely. While the calculator provides preliminary design guidance, Titan's technical team can help review project conditions and provide additional recommendations tailored to your site requirements.

Q: How can I request a quote?

A: To request pricing, product availability, or project support, contact Titan directly through our [website](#) or speak with a member of our sales team.