

Civil Infrastructure Solutions

High Performing Products Backed
by Comprehensive Service



Civil infrastructure keeps our communities moving. Titan provides engineered geosynthetic solutions that strengthen and enhance the design and construction of critical civil works.


TITAN
BUILD YOUR LEGEND

Who We Are

Experience you can count on — from concept to completion.

Titan is a leading supplier of innovative geosynthetic solutions engineered to extend the lifecycle of critical civil infrastructure and improve construction efficiency. Our advanced product portfolio—including high-performance geogrids, geotextiles, geocells, Concrete Canvas®—delivers reliable performance across a wide range of applications such as roadways, embankments, retaining structures, stormwater systems, and municipal utilities.

Backed by extensive project experience and a strong commitment to quality and safety, Titan provides field-proven solutions that help reduce maintenance demands, improve structural resilience, and enhance long-term asset performance—giving owners, engineers, and contractors confidence at every stage of their infrastructure projects.



What We Do



Design Assistance

Optimize performance and reduce costs through tailored design recommendations.



Product Supply

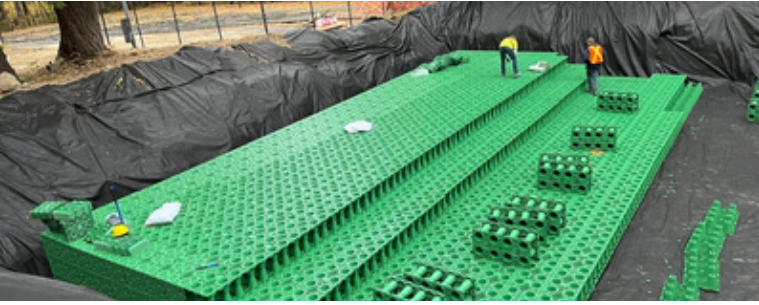
We offer reliable material supply solutions across all Titan locations, ensuring consistent availability and support for your projects.



Installation Support

Proven technical support backed by 300+ years of combined experience, assisting contractors to ensure proper system execution, performance, and longevity.

Stormwater Management Solutions



StormSmart™ Modules

Titan's StormSmart™ Modules are durable underground units designed for infiltration, retention, and detention. HS25 load-rated for commercial vehicles and fire trucks, they deliver maximum strength with a minimal footprint. Their efficient geometry reduces stone requirements during installation—lowering material costs and cutting the system's overall carbon footprint.

[LEARN MORE](#)



StormTech® Arch Chambers

The StormTech® underground stormwater chamber system is a solution for managing stormwater in constrained sites. Installed beneath parking lots, roads, playgrounds, and other developed areas, it maximizes usable land while supporting sustainable water protection standards. Its robust structural design handles heavy loads and delivers a 75-year design life.

[LEARN MORE](#)



StormTank® Modules

The StormTank® Module is a high-performance subsurface system designed for stormwater flow regulation and large-volume storage, engineered for fast installation and rated for heavy-duty applications, including truck loads and fire access roads. It delivers reliable strength with a higher void ratio than many traditional storage solutions.

[LEARN MORE](#)



Soil Stabilization Solutions

MSE Walls & Slopes



Titan Earth Wall® MSE Systems

Titan Earth Wall® MSE Systems provide reliable solutions for permanent and temporary grade-separation challenges. Designed for up to a 90-degree batter, each system is customized to suit site geometry, aesthetic goals, habitat constraints, and long-term performance requirements.

[LEARN MORE](#)



Titan Earth Slope® MSE Systems

Titan Earth Slope® MSE Systems offer a flexible, durable, and cost-effective solution for slopes up to 70 degrees. Each system is custom-designed for site geometry, aesthetics, habitat constraints, and design-life requirements. Lightweight components make construction efficient, and completed systems deliver a vegetated green face that meets high performance and environmental standards.

[LEARN MORE](#)

Slopes & Embankments



Pyramid Grid®

Pyramid Grid® uniaxial geogrids reinforce retaining walls, steep slopes, and slope-repair projects by strengthening soil layers and working with a range of facing systems. They deliver strong mechanical performance plus chemical, biological, and UV resistance for long-term stability in demanding soil environments.

[LEARN MORE](#)



BaseLok™ Geocell

BaseLok™ geocell is a flexible, porous confinement system that boosts shear strength, bearing capacity, and load distribution while allowing natural drainage and vegetation. It's used for base stabilization, slope reinforcement, and erosion control, creating a stable layer that performs well even over soft or wet ground.

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Erosion Control Solutions

Slopes & Embankments



Erosion Control Blankets (ECBs)

Erosion Control Blankets (ECBs) are used to protect soil structures from the damaging effects of rainfall, run-off, wind, and wave action. They offer more dimensionally stable protection to better hold seeds and soil in place and encourage rapid growth. ECBs are manufactured from various degradable fibers.

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Turf Reinforcement Mats

Turf Reinforcement Mats (TRMs) combine polypropylene, straw, and coconut fibers to provide permanent erosion control on steep slopes and in high-flow channels. By integrating vegetation with durable synthetic materials, TRMs create a high-strength mat that stabilizes soil and prevents erosion in demanding drainage and slope conditions.

[LEARN MORE](#)



PROPEX ARMORMAX®

PROPEX Armormax® is an engineered earth-armoring system that pairs a high-performance turf reinforcement mat with corrosion-resistant earth anchors to lock soil in place and withstand severe hydraulic stresses. It provides a durable, vegetated alternative to hard armoring and is commonly used to protect levees from overtopping, as well as stream, river, and canal banks vulnerable to scour.

[LEARN MORE](#)



ShoreSOX®

ShoreSOX® is a patented erosion control system that uses a rip-stop mesh and integrated anchors to contain local organic material or dredge spoils, delivering immediate compaction and long-term shoreline or hillside stabilization. This low-impact solution stops erosion, restores vegetation, improves water quality, and rebuilds degraded shorelines.

[LEARN MORE](#)

Erosion Control Solutions

Slopes & Embankments



ShoreFlex®

ShoreFlex® is a roll-out vegetated concrete block mat designed for permanent erosion control. Delivered in easy-to-handle rolls, ShoreFlex® installs quickly with lightweight equipment and can be produced in standard or custom sizes. Once anchored, it provides long-term stabilization while helping keep project costs low.

[LEARN MORE](#)



Gabion Basket

Gabion baskets are sturdy wire-mesh baskets filled with rocks. This enables them to reduce and prevent erosion by slowing runoff. Gabion baskets' flexibility allows them to settle without losing effectiveness, making them ideal for areas with moving water and unstable ground.

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Cable Concrete®

Cable Concrete® is an articulated concrete block system engineered for steep slopes and embankments, combining high-strength concrete units with flexible stainless-steel cables to deliver both durability and movement tolerance. It provides reliable erosion protection, stability, and long-term performance while helping you meet project requirements efficiently.

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Erosion Control Solutions

Channels & Ditches



ShoreFlex®

ShoreFlex® is a roll-out vegetated concrete block mat designed for long-term erosion control in channels and ditches. Delivered in lightweight, easy-to-install rolls and available in standard or custom sizes, it anchors securely to provide durable hydraulic protection while keeping project costs manageable.

[LEARN MORE](#)



PROPEX ARMORMAX®

PROPEX Armormax® is an engineered earth-armoring system designed to stabilize channels and ditches by pairing a high-performance turf reinforcement mat with corrosion-resistant earth anchors that lock soil in place under high-velocity flow. It offers a durable, vegetated alternative to hard armoring, protecting channel banks and ditch linings from scour, erosion, and hydraulic stresses while supporting long-term stability.

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Concrete Canvas®

Concrete Canvas® (CC) is a geosynthetic cementitious composite mat that hardens on hydration, providing a thin, durable, waterproof alternative to traditional concrete for erosion control, remediation, and weed suppression. Supplied as “concrete on a roll,” it installs quickly—just unroll and add water.

[LEARN MORE](#)



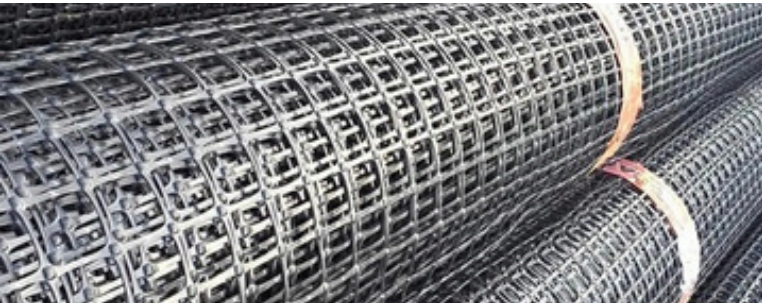
Cable Concrete®

Cable Concrete® integrates strong, flexible stainless steel cables into high-strength concrete, providing durability and flexibility. Teamed up with a polyester geotextile base cloth and available in four weights, Cable Concrete® articulated concrete block system provides maximum protection while allowing you to economically meet the requirements of your project.

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Transportation Infrastructure Solutions

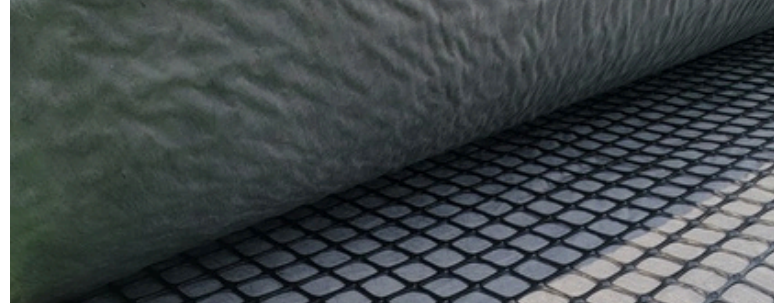
Unpaved Roads



Gladiator Grid®

Gladiator Grid® is a high-performance geogrid engineered for soil reinforcement and stabilization in demanding site conditions. With high radial stiffness at low strains, it delivers superior strength, durability, and efficiency—supporting heavy loads, improving ground performance, and extending the service life of roads, embankments, and other civil infrastructure.

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WickGrid™

WickGrid™ is a geogrid composite that pairs a high-stiffness, open-aperture polymeric geogrid with a uniquely engineered non-woven geotextile featuring multidirectional wicking capabilities. By enabling water transport at zero gradient, WickGrid™ enhances structural stability and helps reduce pore-pressure buildup in challenging ground conditions.

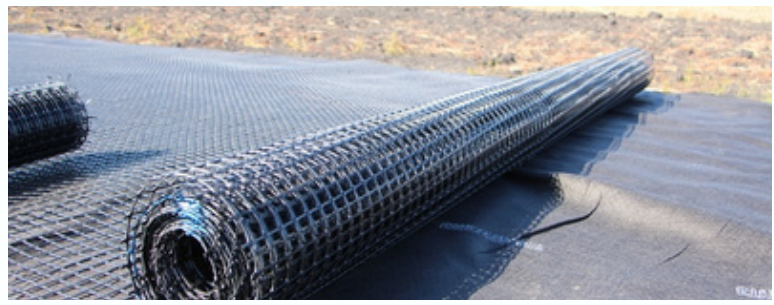
[LEARN MORE](#)



Swamp Grid®

Designed as an all-in-one solution, Swamp Grid® provides soil reinforcement along with filtration, separation, and sub-base drainage performance. This biaxial geogrid is highly effective for stabilizing saturated, piping-prone soils and preventing the loss of imported granular material into weak subgrades.

[LEARN MORE](#)



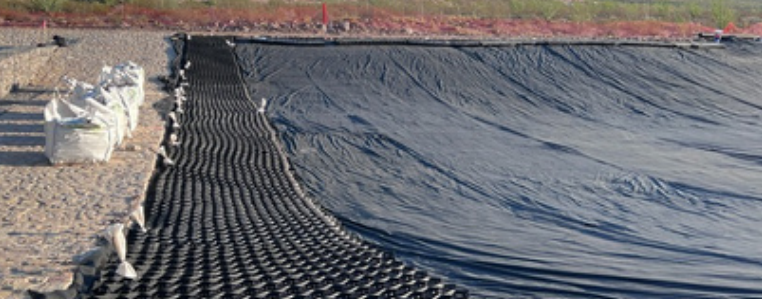
Earth Grid®

Titan Earth Grid® is a high-performance biaxial geogrid solutions used in base applications to reinforce weak soils and provide essential ground stability. It increases the bearing capacity and stabilization of low load-bearing soils. When granular material is compacted over this geogrid, it forms a strong mechanical interlock between the aggregate and the grid.

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Transportation Infrastructure Solutions

Unpaved Roads



BaseLok™ Geocell

BaseLok™ geocell is a flexible 3D cellular confinement system with an open, porous structure that stabilizes soil or aggregate while maintaining excellent drainage. By confining the infill, it prevents horizontal movement, increases shear strength and bearing capacity, and distributes loads to support heavy traffic without displacement.

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Paved Roads



Spartan Road Grid™

Spartan Road Grid™ is a fiberglass geogrid line engineered to reinforce asphalt, extend pavement life, and reduce maintenance costs. This geogrid features a heat-stable coating (up to 900 °F) with minimal shrinkage and elongation for a rigid asphalt layer. It is highly durable and resistant to biological, chemical, and UV degradation.

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Railways



Titan Rail Grid™

Titan Rail Grid™ is engineered to stabilize sub-ballast and ballast layers, improving track performance and reducing maintenance. Its optimized aperture size makes it effective for soil stabilization, ballast reinforcement, sub-ballast reinforcement, and other rail-bed challenges.

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Sidewalks



ConForce Grid™

Suitable for both aggressive and non-aggressive environments, ConForce Grid™ delivers high tensile, flexural, and shear strength while improving reinforcement and reducing surface shrinkage cracking. ConForce Grid™ is a fiberglass geogrid with a durable polymeric coating designed as an alternative to conventional steel rebar.

[LEARN MORE](#)

Bridge Abutments & Outfall Solutions



Pyramid Grid®

Pyramid Grid® uniaxial geogrids provide dependable soil reinforcement for bridge abutments by creating a stable, reinforced soil mass capable of supporting heavy structural loads. Their high-strength polyester or HDPE construction ensures long-term performance in demanding environments, including seismic or high-traffic conditions.

[LEARN MORE](#)



Concrete Canvas®

Concrete Canvas® provides fast, durable outfall protection by forming a thin, waterproof concrete layer that prevents erosion and washout around high-flow discharge points. Its abrasion resistance and ability to conform to uneven ground ensure long-lasting protection even under aggressive hydraulic conditions.

[LEARN MORE](#)



Why Titan

A clear path from plan to hand-off

With Titan's unmatched installation capacity and North American fabrication capabilities, we deploy multiple specialized crews in parallel, accelerate lead times, and keep your projects on schedule. You get one accountable team coordinating materials, prefab panels, equipment, and documentation—so scopes stay aligned, schedules hold, and hand-offs are clean.

What that means for your project:

- **Design Assistance:** Technical guidance and engineering support to optimize material selection, system design, and constructability for civil infrastructure projects.
- **Integrated Project Assurance:** Coordinated planning and resource alignment to support complex construction schedules and reduce risk.
- **Reliable Supply Chain:** Regional network and strong inventory position to ensure consistent material availability and minimize delays
- **Dedicated Project Oversight:** Single point of accountability with clear communication and proactive issue management



Titan Environmental supplies proven geosynthetics and specialty civil engineering construction solutions designed to extend the life of vital infrastructure while protecting precious natural resources.

We push limits with creative solutions. Our product lines include geomembranes, geotextiles, geogrids, primary & secondary containment systems, stormwater management solutions, drainage solutions, MSE wall & slope systems, and erosion & sediment control products. We service the road construction, agricultural, waste management, water resources, mining, oil and gas, and hydroelectric industries that support essential infrastructure worldwide. By providing engineers with a resilient foundation for building better, we've become North America's fastest-growing-end-to-end geosynthetics supplier, fabricator and installer.

We do more than help manage environmental impact, we help improve how that's done. With a team of audacious innovators and agile problem-solvers, we're trusted to adapt to change, respond quickly, and support you at every stage. When you build with Titan, you strive for your very best.

Titan Environmental Containment

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