Your Slope Challenges Solved: New Construction and Repair Solutions from Tensar and Geopier

Whether you need to maximize land for a new development or reinforce existing slopes that are subject to slides or scouring, Tensar and Geopier have the engineered solutions to fit your project requirements. Owners and contractors rely on our proven engineered slope solutions for a wide range of repair and grade separation needs:

- New construction including commercial, industrial and retail developments
- Transportation infrastructure
- Emergency repair due to heavy rains, landslides, or scouring
- Encroachment

For new construction of steep fill slopes, Tensar's Sierra® Slope Retention System offers a fully integrated reinforced soil slope (RSS) solution that can save up to 60% versus conventional concrete retaining walls. Slopes can be created from 26° to 70° to fit various site conditions and use a smaller footprint.

For slope repair, new cut slopes, and emergency repairs, Geopier's SRT® system is used to stabilize shallow slides in-place, without the need for massive earthwork or tie-backs. Our system increases the stability of failing or marginally-stable slopes and embankments.

Both Sierra Slope and SRT systems are proven world-wide, tolerating extreme conditions, differential settlement and seismic events. They also blend naturally with the surrounding environment without the need for concrete facades.


Tensar Sierra® System


Geopier SRT® System

GAIN THE ADVANTAGE: THE BENEFITS OF TENSAR AND GEOPIER TECHNOLOGY

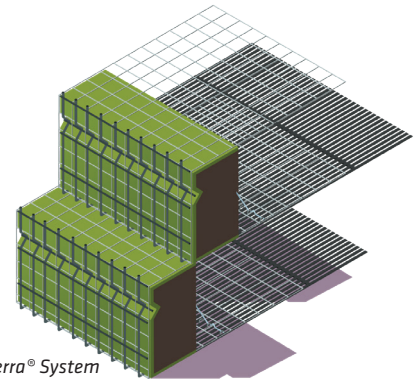
- Shorter construction schedules due to simplified installation and smaller equipment
- Cost savings resulting from lower cost materials and reduced labor
- Quick response time due to our local representatives
- Native plantings protect and restore areas disturbed by construction or natural disaster
- Proven experience with hundreds successful projects worldwide

Proven technology behind the solutions:

SIERRA® SLOPE RETENTION SYSTEM | TENSAR SIERRA® SLOPE SYSTEM

The Sierra® Slope System owes its long-term performance and durability to high-strength Tensar Uniaxial (UX) Geogrids. UX Geogrids are manufactured from HDPE resins that resist deformation and are resistant to physical deterioration and loss of strength from aggressive chemical environments. Through the interaction of the soil and geogrid, vertical and horizontal stresses are transferred to the geogrid inclusions which provide the necessary resistance to maintain a stable slope.

The Sierra System significantly reduces material and installation costs by eliminating many limitations imposed by soil conditions, minimizing fill requirements and allowing the use of on-site fills. The Sierra System's cost effectiveness, coupled with its natural aesthetic appeal, provides a reliable solution routinely specified by government agencies, developers, engineers and architects for a variety of applications.



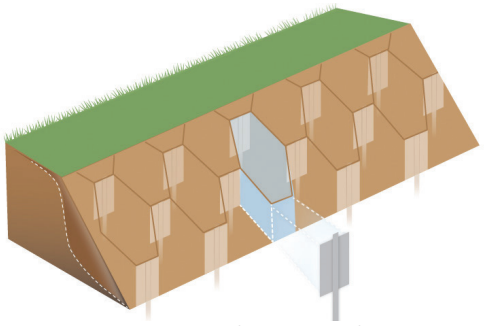
Tensar Sierra® System

Interstate H-3, Oahu, Hawaii: ASCE recognized this Sierra System project with the Outstanding Civil Engineering Achievement Award.

SRT® | GEOPIER SRT® SYSTEM

The Geopier SRT® system is an efficient and cost-effective solution for the stabilization of new slopes and active slides up to 15 feet thick. The patented system is comprised of Plate Pile™ elements– vertical steel reinforcements– that are rapidly driven through unstable soil into a competent layer. The Plate Pile elements are engineered into a staggered spacing based on slope grades and soil properties. The Plate Pile elements transmit slide forces to the underlying stable soil to resist lateral movements and increase the factor of safety against failure. Plate Pile installations are fast and allow for immediate stabilization without the need for massive earthwork and site disruption.

The Geopier SRT® system is designed to stabilize slopes where the soil conditions consist of an upper zone of weathered, loose, soft or disturbed soil over a stable zone of soil or soft rock. The Geopier SRT system is ideal for shallow slides or constrained sites.



Geopier Plate Pile™ elements form a series of horizontal barriers where the soil arches between the plates.

TENSAR AND GEOPIER APPLICATIONS

The Tensar Corporation is a premier provider of technology driven site solutions based on advanced soil reinforcement technologies incorporating high-performance, patented products. The benefits of combining two or more of our company's products, services, applications and/or systems result in faster, stronger and more economical solutions that save time and money when compared to conventional alternatives. Through Tensar's subsidiary unit, Geopier Foundation Company, we're able to offer customized, engineering-based solutions that address a wide range of site development challenges.

Williams, California: Stabilizing 1.5 miles of embankment slopes for Caltrans using Geopier® Plate Piles™.

Contact us to solve your slope problems

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