

FOUNDATION IMPROVEMENT SYSTEM

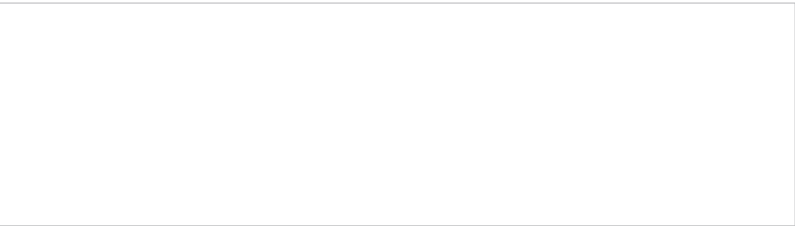
SYSTEM OVERVIEW

Tensar®

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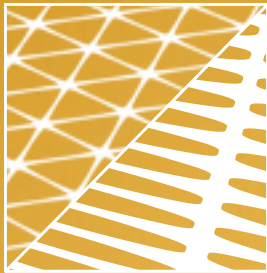
The Prism® System was used to help reduce encroachment on the wetlands on Old Olympic Highway in Port Angeles, Washington.



The Prism System allowed the contractors to save thousands of dollars on this Florida State Road 15/US17 project.



►By distributing loads over a wider area and controlling embankment stability, the Prism® System creates a stable embankment over soft soils.



TENSAR® GEOGRIDS
The Prism System owes its constructability and versatility to Tensar® TriAx® and Uniaxial (UX) Geogrids, patented geosynthetic reinforcement grids. The lightweight, yet stiff, snowshoe-like qualities of TriAx Geogrids create stable platforms, which support construction personnel and the critical initial lift of granular embankment fill. Subsequent layers of UX Geogrids are used to provide overall embankment stability and assure long-term performance.



Changing the Way We View Embankment Foundations

The construction of stable embankments, bridge approach fills, causeways, levees and dikes over weak soils (especially through or alongside wetlands) is challenging. These projects are expensive and time-consuming when built by conventional means.

The Prism® System was developed to expedite and simplify this type of construction. It is a composite soil and geogrid structure which creates a reliable embankment foundation with significant cost advantages.

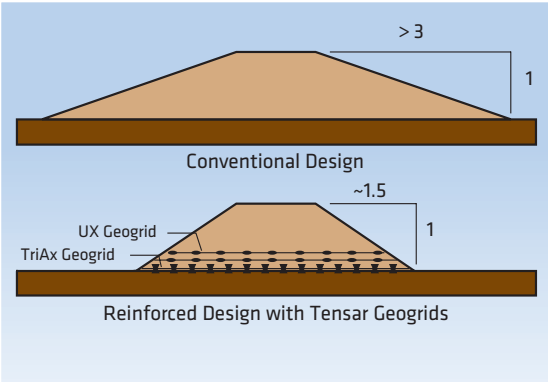
The result is a structurally stable, cost-effective alternative to overexcavation and replacement, geotextiles, extensive surcharging, chemical stabilization and other conventional techniques.

THE PRISM SYSTEM IS APPLICABLE WHEN YOUR PROJECT IS FACING:

- Overexcavation and replacement of soft soils, particularly if they are contaminated
- A design calling for stone columns or other deep foundations*
- Extensive surcharge loading to prevent long-term settlement
- The possibility of environmentally detrimental soil treatment techniques
- Potential destabilization of existing embankments when excavating adjacent areas

Compared to conventional options, which are costly, time-consuming, labor intensive and difficult to employ, the Prism System provides a reliable alternative with far less expense.

**Occasionally, in the case of fast-tracked embankment widenings over soft ground, potential differential settlement must be overcome. In these instances, the Prism System can be applied in conjunction with deeper foundations such as Geopier® Rammed Aggregate Piers™. For more information, call Geopier Foundation Company at 800-371-7470 or visit www.geopier.com.*



The Prism System minimizes the footprint of the embankment, as well as its fill requirements and settlement potential.

| Prism System Components | |
|-------------------------|---|
| Component | Function |
| Tensar Geogrids | Stiff geosynthetic reinforcement |
| Engineered Fill | Makes up the body of the embankment |
| Engineering Services | A range of design assistance provided by Tensar |
| Site Assistance | Helps to reduce costs and expedite the installation process |

Shaped to Meet Your Requirements

The Prism® System provides significant advantages to designers, owners and contractors such as:

- **Design Support** – Conceptual proposals and value-engineered (VE) solutions can be evaluated without incurring additional costs.
- **Reduced Undercutting and Backfilling** – The Prism System reduces the importing of expensive select fills and minimizes the disposal of excavated materials, which may be contaminated and require special handling. It also decreases the need for excavations adjacent to existing embankments which can often destabilize them.
- **Environmentally Friendly** – The overall footprint disturbed is reduced, thus mitigating environmental impact on wetlands and reducing restoration costs and time. This system also decreases, or even eliminates, the need for additional right-of-way purchases or the creation of wetlands.

- **Compatible Techniques** – Combining other ground modification techniques, such as a Geopier Rammed Aggregate Pier™ System, allows for the development of an optimum solution.
- **No Chemical Treatment** – The Prism System eliminates a time-consuming and environmentally detrimental operation.
- **Fast Construction** – The rapid establishment of a firm construction platform speeds project completion, so construction is less likely to be disrupted by inclement weather.
- **Reinforced Foundation and Core** – The Prism System provides an internally reinforced composite foundation and core. This reduces the need for surcharge loading, lowering overall fill requirements and may reduce differential settlement and its impact on the structure.

Proven in nearly three decades of use, the Prism® System has been used by public transportation agencies, the U.S. Army Corps of Engineers, Fortune 500 firms and some of the world's most respected engineering consultants.

Our distribution teams, located throughout the world, are dedicated to providing you with the highest quality products, service and support. With more than 40 in-house engineers, Tensar International Corporation (Tensar) keeps its systems at the forefront of today's design technology to effectively meet customer needs.

For more information on the Prism Foundation System, please call **800-TENSAR-1**, visit **www.tensarcorp.com** or e-mail **info@tensarcorp.com**. Additional Prism System information, installation and design guidance, system specifications, design details, conceptual designs, sealed construction drawings, preliminary cost estimates and summaries of completed projects are all available.



Snowshoe Effect – The Tensar® TriAx® Geogrid distributes loads over soft soil much like a snowshoe supports the weight of a man over soft snow. This provides a stable composite raft foundation for construction – even over extremely poor soils.



The Prism System helps create a reliable embankment foundation at Padden Parkway – Vancouver, Washington.



At Cooper River Bridge (Drum Island – Charleston, South Carolina), the Prism System creates a structurally stable, cost-effective alternative to overexcavation and replacement, geotextiles, extensive surcharging, chemical stabilization and other conventional techniques.