



StrataGrid™

High Performance Soil Reinforcement Geogrid



Overview

StrataGrid™ is a high-performance soil reinforcement solution that is produced by knitting high-tenacity polyester yarn into a dimensionally stable network of apertures to form a geometric grid. StrataGrid's tensile strength and high molecular weight offers soil reinforcement for both vertical and horizontal structures, and its proprietary UV-stabilized coating compound provides enhanced durability against the elements. StrataGrid™ provides industry leading elongation and stress strain values and guarantees a structure life of more than 100 years.

Geogrid reinforcement can resolve both technical and cost challenges and make previously unusable land usable. One of the most dramatic areas in which this can be seen is in the development of space-saving mechanically stabilized earth (MSE) systems that deliver stronger, more economical infrastructure with less of an impact on the environment.

Manufacturing

StrataGrid™ is manufactured using a high-grade polyester yarn with special, high-tenacity, and low-creep properties. The yarns are knitted into a dimensionally stable network of apertures to form a grid that offers tensile reinforcement to the soil in both vertical and horizontal directions. It is then treated with a proprietary coating to provide chemical, mechanical, and UV benefits that preserve its durability in all environments. Strata has always emphasized the importance of extreme high-quality products and ensures an industry-leading product with StrataGrid™.



Beaming



Knitting



Coating

Key advantages

- ▶ Widths up to 5.7 m (~18 feet)
- ▶ Wide range of ultimate tensile strengths up to 800 kN/m.
- ▶ Industry leading stress-strain values with low elongations.
- ▶ Design life of more than 100 years
- ▶ Designed and adhere to MoRTH, IRC, AASHTO and other international guidelines. And are fully certified and tested by the Indian Institute of Technology (IIT).

Applications

- ▶ Retaining Wall
- ▶ Embankment over soft soils (basal reinforcement)
- ▶ Reinforced steep soil slopes
- ▶ Vertical containment with steep slopes for landfill

International Quality Standards

CERTIFICATIONS:



Strata Support Services

Professional Solutions

Our International Support Services Team addresses the evolving needs of the infrastructure sector. We provide an eco-friendly and cost-effective geotechnical solution.

With a broad spectrum of innovative, high-quality products, precision-engineering, and timely, failsafe installation, surpassing customer expectations has become par for the course at Strata. Strata's out-of-the-box problem-solving dexterity has pushed the boundaries of what is possible and performed engineering feats as diverse as using our products.

Beyond supplying quality products and innovative designing engineering solutions, Strata also offers fully integrated construction capabilities, and specialized contracting in select global markets.

Design, application, and supply

Strata not only provides geotechnical products, but our team of engineers help you with your turnkey project by supplying you with technical knowledge and support as to how our products can help you finish your projects on time while keeping costs down.

Comprehensive and in-depth

To ensure smooth installation of Strata products, our team is available to offer full technical guidelines like site specific method statements, tender proposals and documents and a wide range of case studies and independent certification documents.



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