

StrataGrid™



StrataGrid™

PET high-tenacity and low-creep
yarn for soil reinforcement



OVERVIEW

StrataGrid™ is a polyester, flexible, high-performance geogrid used in soil reinforcement and other civil engineering applications. StrataGrid™ is manufactured using a high-grade polyester yarn with special, high-tenacity, and low-creep properties knitted into a network and then coated with a proprietary coating. It is differentiated from other geogrids with its superior elongation and stress-strain values, its wide widths (up to 5.7 m wide) and

customized lengths. StrataGrid™ is available in two series: uniaxial and biaxial.

StrataGrid™ uniaxial series has a range of ultimate tensile strengths ranging from 20 kN to 800 kN for varying design applications. The StrataGrid™ biaxial series has a range from 20 kN to 200 kN.

StrataGrid™ is tested in GAI-LAP accredited labs and is CE, NTPEP, and ISO certified.

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

Highlights

- ▶ Superior elongation and stress-strain values for the uniaxial and biaxial series
- ▶ Industry leading widths: 5.7 m and customized lengths
- ▶ High molecular weight (>- 25,000 g/mol) and low CEG
- ▶ Design life up to 120 years
- ▶ Biaxial series critical for cost-effective basal reinforcement solutions
- ▶ Applied in extremely soft soils
- ▶ Conforms with and is testing in accordance with GRI and ASTM standards

Applications

- ▶ Embankment over soft soils (basal reinforcement)
- ▶ Block and panel walls for highways, landfills, and other retaining walls
- ▶ Below structural foundations
- ▶ Reinforced steep soil slopes and embankments
- ▶ And many more

International Quality Standards

CERTIFICATIONS:





About us

Strata is a leader in the geosynthetics market across the globe. It was established in 2004, in partnership with Strata Systems Inc., a subsidiary of the US based textile veteran, Glen Raven. Strata provides end-to-end solutions for soil reinforcement challenges including supply, design, and construction with our world renowned StrataGrid™ (geogrid) and StrataWeb® (geocells). In addition to the ISO and CE mark, the testing for our products is conducted in GAI-LAP accredited labs across the U.S., U.K., and India. We are also a proud member of the International Geotechnical Society (IGS) promoting advancements in geosynthetics.



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