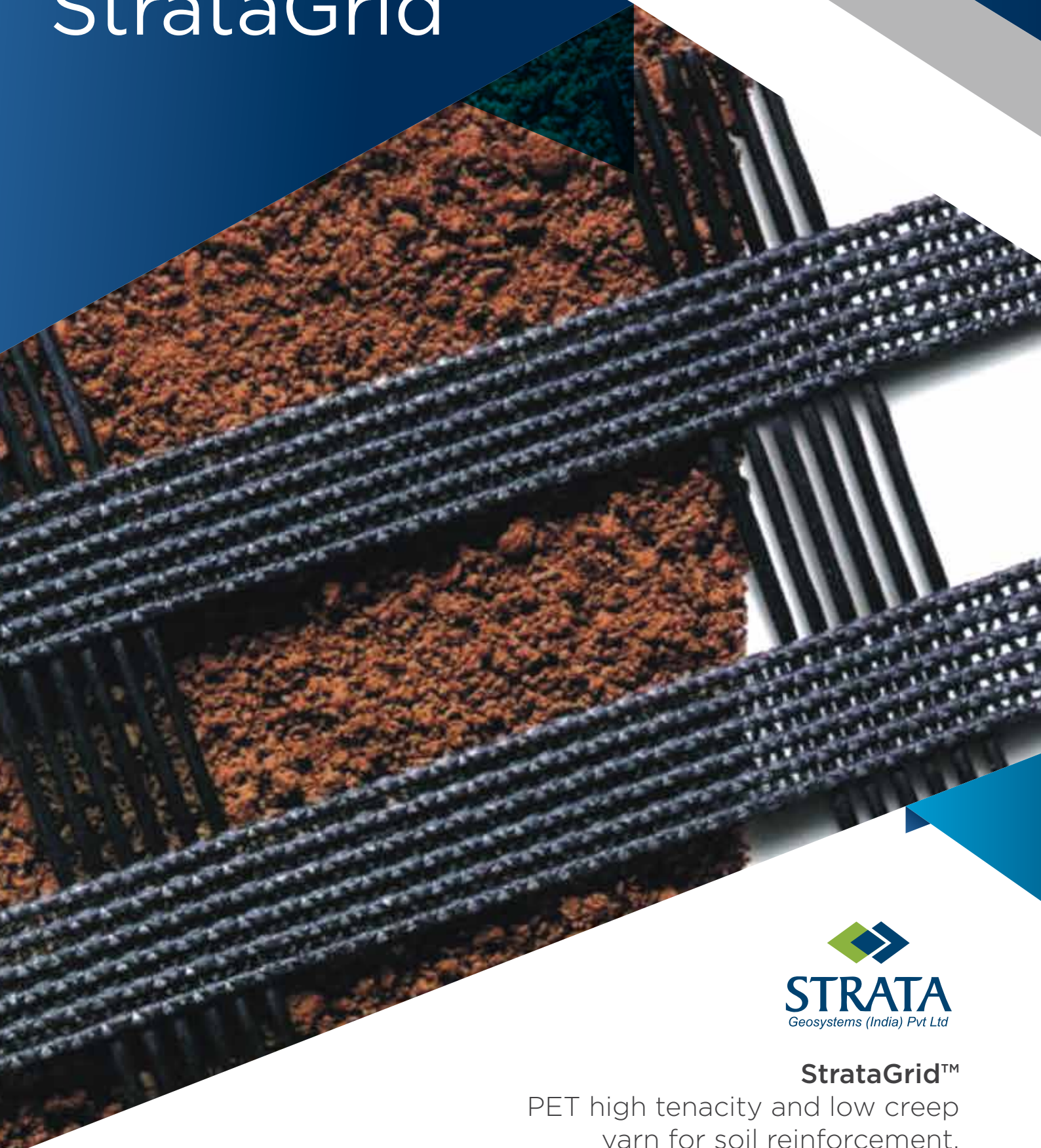


StrataGrid™



StrataGrid™

PET high tenacity and low creep
yarn for soil reinforcement.



StrataGrid™ is manufactured from a high grade PET (polyester) yarn with special, high tenacity and low creep which are optimal engineering characteristics essential for reinforced soil technology. It is then treated with Proprietary Polymer Modified Bitumen coating for ultra violet and chemical protection and without thermal degradation during the coating process.

StrataGrid™ uniaxial comprises of knitted ribs, in the Machine Direction (MD) which directly reflects the tensile strength of the geogrid. The Cross Machine Direction CMD ribs have only marginal strength, ranging from 20kN/m for SGi 40 and SGi 60 styles, and 30kN/m for

higher strength geogrids. In the StrataGrid™ nomenclature, the numerical reflects the ultimate tensile strength of the geogrid in the MD.

StrataGrid™ is PET yarn of high molecular weight, knitted using low Carboxyl End Group Count. The yarns are precision knitted into a dimensionally stable network of apertures, providing tensile capacity.

StrataGrid™ uniaxial has a range of ultimate tensile strength ranging from 40kN to 400kN to suit the design engineer's requirements for various applications. StrataGrid™ biaxial has a range from 30X30 kN/m up to 150X150 kN/m.

Manufacturing

Strata's manufacturing process ensures quality, consistency and compliance with international standards.

StrataGrid™ is manufactured through a 3-step process:

During beaming, the high-tenacity yarns are initially beamed and a set of beams are then knitted on warp knitting machines to provide

greige fabric. The greige fabric is then passed through or specially designed coating plant to provide best quality coating. The unique feature of this coating is to minimize heat exposure of the fabric to less than 1 second which prevents polymer degradation and controls elongation. Strata's Quality Management Systems at the manufacturing facility are certified for ISO 9001 : 2008 and StrataGrid™ is CE certified.

Beaming



Knitting



Coating



Highlights

- ▶ Polyester knitted geogrid using high tenacity yarn
- ▶ High molecular weight (≥ 25000 g/mol) and low CEG, less than 30mmol/kg
- ▶ UV-stabilised proprietary polymer modified bituminous compound used for coating
- ▶ Design life upto 120 years
- ▶ Tested at TRI (USA), BTTG (UK), IIT Madras, BTRA (Mumbai)
- ▶ Conforms with and tested as per GRI and ASTM standards

Applications

- ▶ Block-faced/ Panel-faced reinforced soil structures
- ▶ Reinforced soil slopes and embankments
- ▶ Landfill containments
- ▶ Below structural foundations

International Quality Standards

Over 25 million sqm of StrataGrid™ manufactured and sold globally



Products tested at:



BTTG
(UK)



TRI
(USA)



BTRA
(India)



IIT Madras
(India)





About us



Established
2004



Manufacturing Facility
StrataGrid™ geogrid, StrataWeb®
geocells at Daman, India.



Joint Venture
Strata Systems Inc. USA
(Division of Glen Raven Group)



Project Track Record
Timely & infallible installation



Global Presence
USA, Brazil & Ireland



Certification
CE TUV

Strata India offers a comprehensive range of high-quality geosynthetic and geotechnical solutions to India's civil engineering and construction industry.

Strata India provides turnkey solutions for various applications like reinforced soil structures, slope protection and stabilization, erosion control, precast arch bridges, foundation improvement for structures and embankments, steep slope embankments, strengthening of paved/ unpaved roads, storage/ container yards etc.



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