

Tenax Geogrids

TENAX

Soil Reinforcement Solutions



Geosynthetics Limited

Tenax

Soil Reinforcement Services



Extruded geogrids, such as those manufactured by Tenax, are widely accepted as giving the best performance and longer-lasting results for soil reinforcement.

TENAX

As the distributor for Tenax in the United Kingdom, Geosynthetics Limited stock their full range of extruded geogrids and provide next day delivery to site as standard. Tenax geogrids fall into two categories to suit a wide variety of applications: the mono-oriented TT range and the bi-oriented LBO range. Civil engineers regularly specify Tenax to provide:

Product features:

- Increased soil stabilisation
- Better reinforcement
- Increased bearing capacity
- Improved lateral confinement
- More effective distribution of applied loads



Recognised as a World leader in this field and with a reputation for excellence, Tenax continues to support private and public sector clients in a number of crucial areas including:

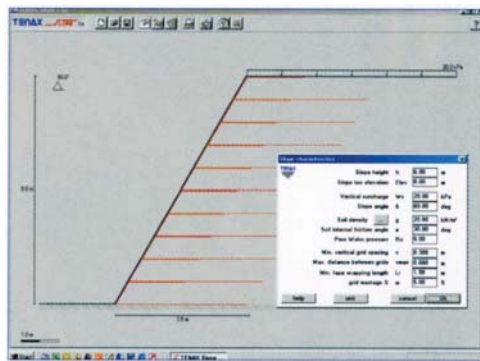
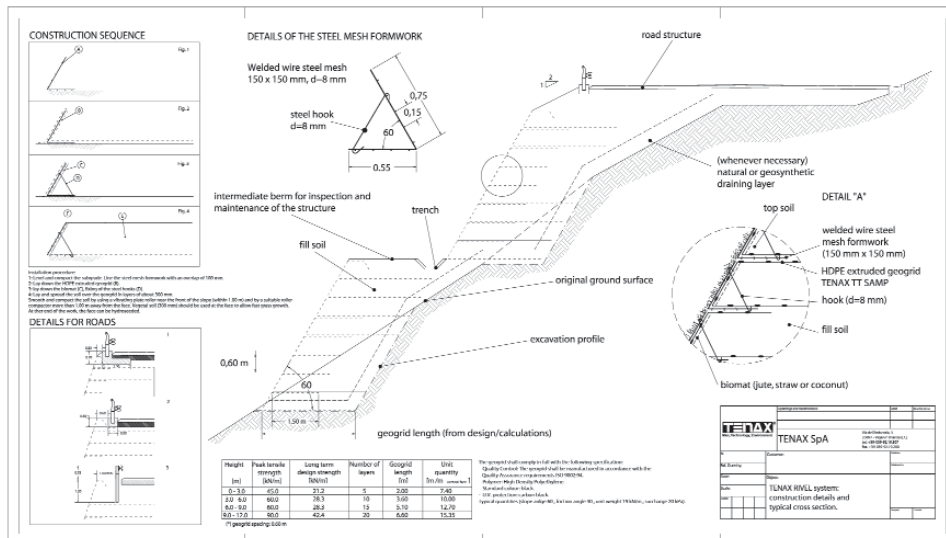
- State-of-the-art geotechnical engineering services from field and laboratory testing to engineering analysis and construction procedures.
- Engineers, geologists and environmental experts to provide a balanced solution to any environmental project.
- Educational seminars, design workshops and customised "in-house" training.
- Specific software for designing Civil Engineering applications with TENAX geosynthetics.

Design services

Tenax design services

Whatever the nature of your project, the TENAX Geosynthetics Technical Office (GTO) will give you expert advice in selecting, designing and developing technically appropriate and cost effective solutions.

The Tenax Geosynthetics Division can provide local support for a wide range of engineering problems; helping you to find the best solution through feasibility studies, field and laboratory testing, construction quality control and engineering analysis.



Above
Detailed construction drawing for specific project conditions.

Left
TNXSLOPE: Specific software for designing steep slopes reinforced with Geogrids.

Geosynthetics Ltd is committed to offering the best solutions for soil stabilisation, erosion control, drainage and environmental protection problems.

Well trained staff are always available to discuss which materials are best suited to any particular application.

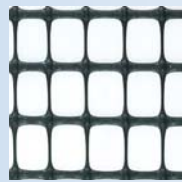
Product applications



Railroad ballast reinforcement with Tenax LBO geogrids



Low bearing capacity subgrade reinforcement with Tenax LBO geogrids.



Tenax LBO - Bi-oriented geogrid

With a high tensile strength in both directions and a uniform distribution of rectangular apertures, Tenax LBO is ideal for the following applications:

- Paved and unpaved roads
- Airport runways
- Industrial yards
- Embankment foundations over soft soil
- Railroad ballast reinforcement
- Soil reinforcement of building foundations

By confining the granular fill and providing tensile reinforcement, Tenax LBO helps to distribute loads more effectively, resulting in reduced rutting and shear failure. In addition to this it increases the bearing capacity of soft sub-soil, and provides the lateral confinement required to prevent the pumping of sub-grade fines – increasing longevity and reducing the need for maintenance.

Manufactured from polypropylene, Tenax LBO has an open structure with rigid ribs and junctions that create a more efficient interlocking action between the geogrid and the fill to give improved performance.

Please call
0870 850 1018

or email sales@geosyn.co.uk
for further information.

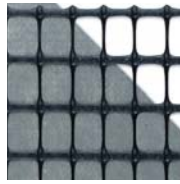
Wide
product
range

Large
stock
holding

Next day
delivery



Soft soil stabilisation and separation using Tenax GT.



Tenax GT – Geotextile thermally bonded to Tenax LBO geogrid

Laminating a non-woven geotextile to Tenax LBO produces Tenax GT; a polypropylene geocomposite specifically designed for the stabilisation of soils in applications where reinforcement as well as separation is required. This separation between the granular base and very fine soil provides an effective filtering action and avoids mixing of the different soil types to extend life and increase performance.

In addition to this Geosynthetics Limited can supply TenaxGT440R, which has been developed specifically for railway applications to improve track life and performance by both stiffening the ballast over weak ground, and separating the ballast from the sub-grade.



Tenax Rivel system for landslide repair.



Tenax TT

Ideal for a wide variety of soil reinforcement applications including:

- Vegetated steep slope embankments
- Landslide repair
- Modular concrete block retaining walls
- Road and railway embankments
- Rock fall protection systems
- Containment dykes for landfill and water basins

Manufactured from high-density polymers, its high tensile strength in one direction makes it the ideal solution for the construction of embankments and walls with green-faced slopes that are stable at inclinations of up to 80°. Tenax TT also reduces cost and minimises environmental impact by allowing the use of poor quality in-situ fill material and encouraging the reinforced slope back to its natural vegetated state.

Available in tensile strengths in excess of 120kN/m² and with extremely high junction strength, means it can also be used in structures such as the Tenax Geograft System, where the geogrids are connected with Bodkin-type joints for extra reinforcement.



Bridge abutment with Tenax TT samp and concrete blocks.

Geosynthetics Ltd is a leading distributor of geosynthetic materials in the UK

Design service

Onsite support

See all products online at geosyn.co.uk



Quality assurance



The reassurance of Tenax quality



The TENAX Quality Assurance System – for the manufacture of geogrids and polymer based three-dimensional extruded structures for Civil Engineering applications – has been assessed and certified in accordance with ISO 9001: 2000 Quality Standards by both SGS United Kingdom and SGS Italy, the world's leading inspection, verification, testing and certification company.

With periodic inspections by internal personnel and external auditing authorities, Tenax geogrids benefit from the rigorous control from the selection of raw materials, through to product release - giving you the guarantee of product integrity and performance.



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Please call - **0870 850 1018**

or email sales@geosyn.co.uk for more technical advice and further information.

Geosynthetics Limited

Fleming Road, Harrowbrook Industrial Estate
Hinckley, Leicestershire LE10 3DU.
Fax: 0870 850 6572

Email: sales@geosyn.co.uk

