TenCate develops and produces quality products that increase performance, reduce cost, and deliver measurable results by working with our customers to provide advanced solutions.

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materials that make a difference

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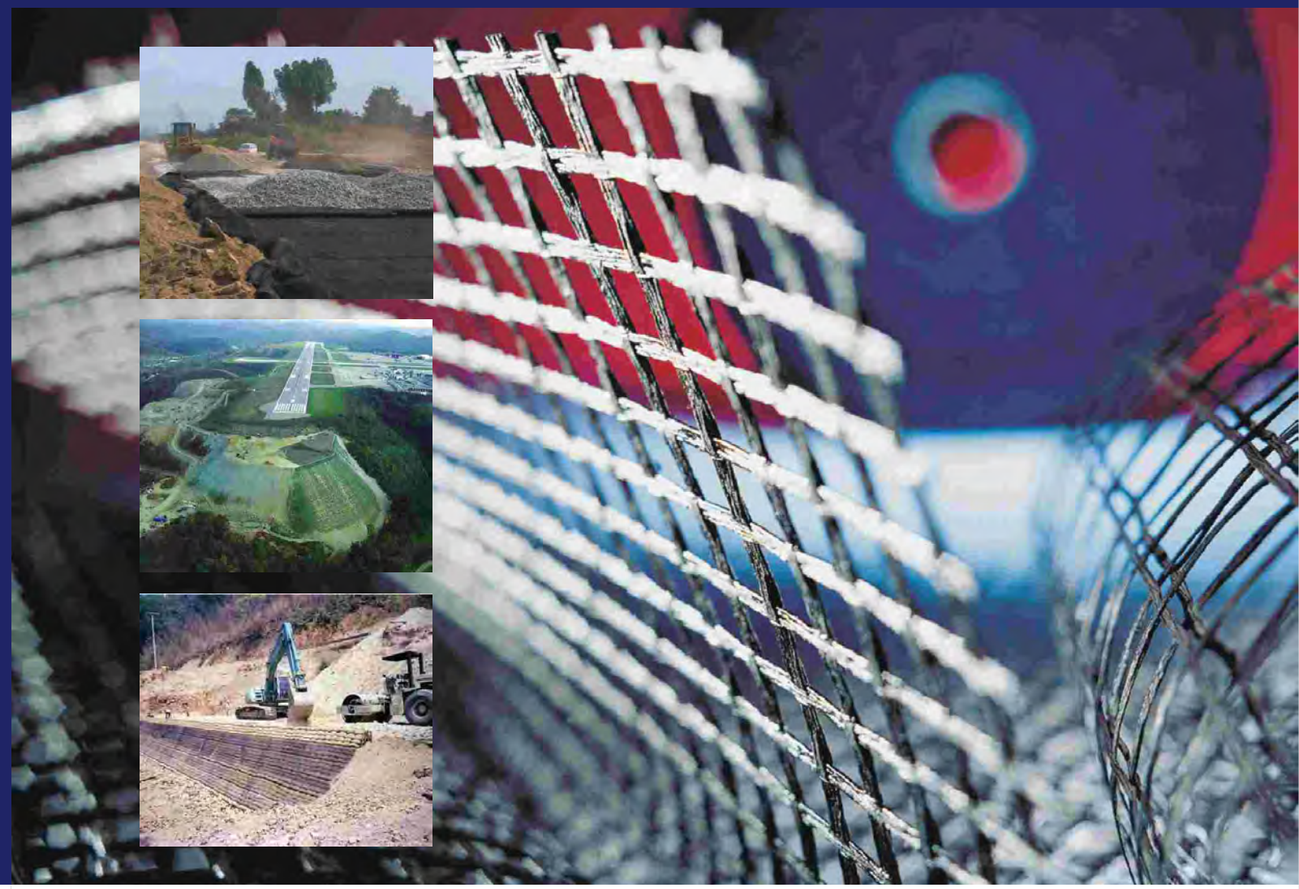
TENCATE
Miragrid

MIRAGRID GX GEOGRID
Stable and secure soil reinforcement

Reinforcement Geosynthetics

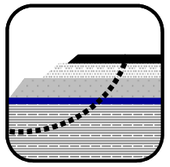


Geosynthetics
Aerospace Composites
Armour Composites
Protective & Outdoor Fabrics
Industrial Fabrics
Synthetic Grass

TENCATE
materials that make a difference

Miragrid GX Geogrids

Economic soil reinforcement



Road embankments

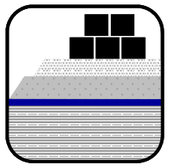
Railroad tracks

Pile foundations

Landfill lining systems

Retaining structures

Bridge abutments



Base course reinforcement

Foundations

Manufactured from polymer coated high tenacity polyester yarns, Miragrid GX geogrids ensure the long term structural stability of reinforced soil structures. Miragrid GX geogrids are structured to meet the demands of most soil reinforcing applications with the following characteristics.

- **High tensile strength.**
- **Low creep characteristics (< 1% over 120 years design life at 40% tensile load).**
- **High fibre interlock strength.**
- **High soil interaction and pullout strength.**
- **Suitable for long term (> 100 years) reinforcement applications.**
- **Inert to chemical degradation.**
- **Resistant to prolonged exposure to sunlight.**

Weak and unstable soils are easily strengthened by the inclusion of Miragrid GX geogrids. Miragrid GX geogrids act to structurally increase the load bearing capacity and tensile resistance of the soil beyond its natural limits.

The ideal solution for many applications

Miragrid GX geogrids are the ideal reinforcement for all non-cohesive, coarse grained soils. The application areas are widely spread, including reinforced earth structures, bridge abutments, pile embankment, subgrade stabilization, stabilization of railroad tracks, foundations, slope reinforcement in landfill lining systems, hydraulic construction, and many more.

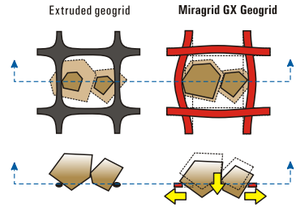
Miragrid GX Geogrids

Assured performance

Miragrid GX geogrids are supplied in a variety of web dimensions that effectively bind the soil. An optimum compromise between flexibility and stiffness ensures its suitability for installation in a wide variety of soil types and applications.

Miragrid GX geogrids exhibit low creep characteristics and are suitable for inclusion in critical structures with long term performance requirements.

Why Miragrid GX Geogrids ?
Economic alternative to conventional geogrid products.
Quick and easy installation.
Guaranteed long term performance with low creep tendency.
Flexible structure ensures optimum interlocking with the soil.
Practical green-facing systems easily attained.
Superior interfacing with concrete block structures.
Independently verified and tested performance properties.
Flexible production facilities to meet a wide verities of strengths and sizes.



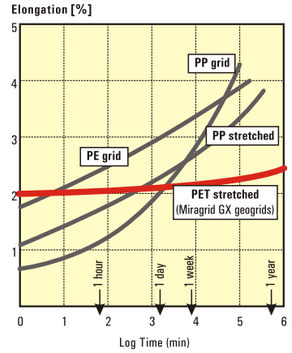
Left: Insufficient interlocking of stiff extruded geogrids.

Right: Optimum interlocking is achieved with Miragrid, resulting in an increased factor of safety.

Concrete block wall structures

Miragrid GX geogrids are specially suited to the reinforcement of vertical and inclined reinforced soil walls with modular block or panel facings. Miragrid GX geogrids can be easily integrated with a wide variety of facing systems to provide a superior, structurally sound finish. The problem of uneven and unstable blocks, which is a common feature with extruded geogrids, is eliminated with Miragrid GX geogrids.

Creep Performance of Miragrid GX Geogrids



Reference: "Geotextiles and Geomembranes in Civil Engineering", R.Veldhuijzen (ed.), published by A.A. Balkema, Rotterdam, 1985