



UNPARALLELED HIGH STRENGTH GEOGRID

ParaLink® is a unique, high performance geogrid for demanding geotechnical, mining and civil engineering applications, where high loads, seismic events or aggressive ground conditions are encountered.



ParaLink® placed over soft soil on the M49, Bristol

ParaLink® has achieved an **Environmental Product Declaration** which provides transparent, reliable and comparable life cycle environmental data.

ParaLink® delivers long-term structural reinforcement of soils where the performance of the geogrid is required throughout the design-life of the structure;

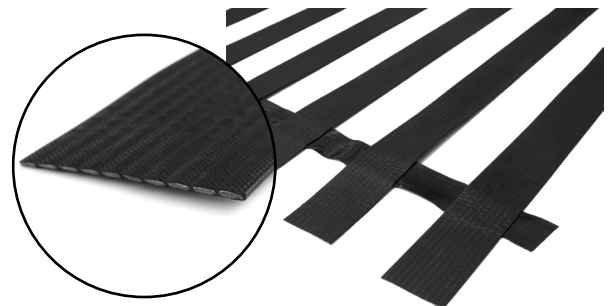
- M** Unidirectional strengths from 200 to 1,600kN/m
- M** BBA & NTPEP Certified, 120 year design life
- M** CE Marked and EPD Certified
- M** Soil reinforcing low-creep polymer yarns are protected by the toughest geogrid sheathing in the market providing unparalleled resistance to the environment
- M** Produced in ISO9001:2015 & ISO14001:2018 certified factories

Tried and tested throughout the world, Maccaferri

ParaLink® is a versatile geogrid. Its unique robust structure gives **ParaLink®** great resilience and reliability, reducing client risk and enabling efficient construction.

Over soft soils

ParaLink® provides a cost effective alternative to soft-soil ground improvements beneath proposed embankments. It limits differential settlement, base sliding and protects the embankment against internal and global failures. It can be used in conjunction with vertical drains and/or surcharge methods.



ParaLink® geogrid

Over piles

ParaLink® geogrids greatly enhance the transfer of embankment loads into the piles, improving stability and reducing settlements. It often enables an increased pile spacing and smaller pile caps as well as reducing the need for additional piles along the sides of the embankment, reducing project cost and installation time.

Over voids and old mine-workings

Areas prone to voids (karstic features, chalks, old mine works) can be treated with **ParaLink®**. It is used at the base of embankments to prevent catastrophic collapse and limit surface deformations throughout the design life of the structure.

PARALINK® HIGH STRENGTH GEOGRID

EPD® Environmental Product Declaration (EPD) in accordance with ISO 14025 and EN 15804+A1
 EPD reg no: S-P-01465
www.environdec.com

Other uses

- M** Over CMCs (Controlled Modulus Columns) to prevent deformation at the slope toe, control lateral shear forces and limit differential settlement of the embankment
- M** As a liquefaction countermeasure beneath embankments and routes for emergency vehicles, to mitigate the effects of natural disasters
- M** As primary reinforcement in reinforced soil slopes and walls in combination with Terramesh or ParaGrid

Design tools

- M** MacBARS – for designing basal reinforcement over piles, soft ground and voids. In accordance with BS8006-1:2010+A1:2016
- M** Mac.St.A.R.S. W – for designing reinforced walls, slopes and embankment in accordance with Eurocode 7 and British Standard
- M** BBA assured **BIM objects** available from Bimstore



ParaLink® used over mine workings in the South West

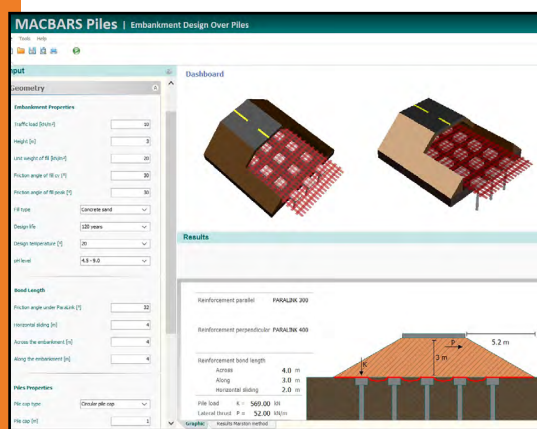


ParaLink® used over piles at Colley Lane, Somerset

The facts: UTS and LTDS

With a design life of 120 years, ParaLink® has the most beneficial partial safety factors (including installation damage and chemical resistance) in the geosynthetics market. Consequently, when the UTS is factored to calculate the Long Term Design Strength (LTDS) in the design, ParaLink® achieves higher LTDS than other products with equivalent UTS. e.g. ParaLink® 1500 has a UTS=1,500kN/m. If placed in gravel @ 20° C, its LTDS = 999.6 kN/m.

A competitor geogrid reinforcement with UTS = 1,500kN/m with less favourable material partial factors of safety offers an LTDS = 777.1 kN/m. Although apparently equal, the products actually have a 22% performance difference in LTDS which is critical in design and project cost.



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