

MACCAFERRI



GEOSYNTHETICS

MACCAFERRI SOFTWARE SUITE FOR DESIGNING WITH GEOSYNTHETICS

Maccaferri has created a suite of software to help our clients design using our geosynthetic products in a range of applications.

MacBARS is used in the design of basal reinforcement including load transfer platforms, spanning voids, or over soft subgrade, according to validated and widely practiced design methodologies.

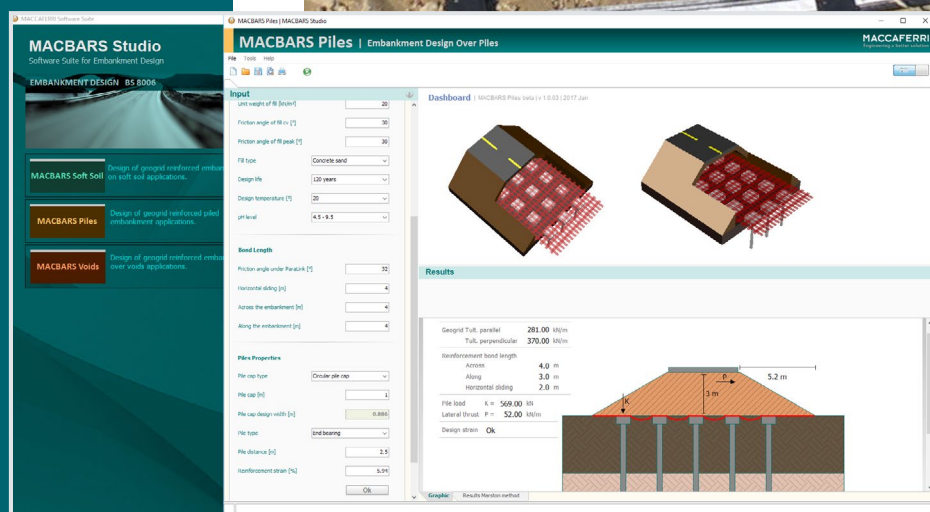
MacSTARS is used in the design of vertical and steeped slope reinforcement applications including overall stability of any type of Mechanically Stabilized Earth (MSE) wall, slope, or embankment.

MacREAD is used to design soil stabilization applications either in dynamic or static conditions including paved roads, unpaved roads, and parking areas.

MacFLOW is used to design drainage systems using our MacDrain product for vertical, flat and sloped applications.



*Click here to
download
our software.*



GEOSYNTHETIC SOLUTIONS PROVIDER

Maccaferri has over 30 years' experience in the manufacture and supply of geosynthetics and nearly 140 years with its traditional products.

With presence in over 100 countries, Maccaferri has global technical knowledge with local expertise to provide our clients with tailored solutions to fit their needs.

The knowledge and capability to easily combine our products and solutions enables Maccaferri to offer clients custom solutions, optimising value and reducing project cost.

Maccaferri's wide variety of systems offer the highest level of performance in the industry, allowing designers to select the optimum solution for their specific application. While Maccaferri offers an array of standard products for the most common applications, our flexible manufacturing capabilities allow for custom solutions designed for unique conditions. Maccaferri offers cost-effective, value engineered, scalable solutions for any size project.



GEOSYNTHETICS FOR THE MOST DEMANDING APPLICATIONS

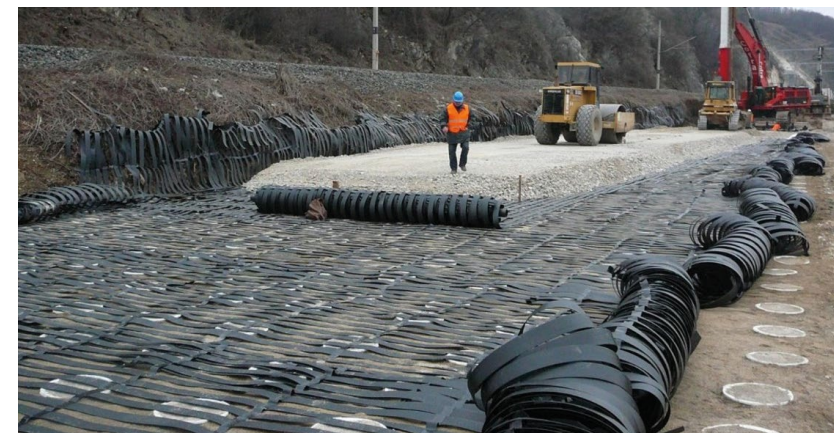
M STRENGTH: high-strength geogrids with up to 1350kN/m (100,000lbs/ft) tensile strength and high-performance turf reinforcement mats are perfect for the most demanding geotechnical and civil applications.

M PERFORMANCE: our geosynthetic products have been successfully installed worldwide. They have performed through severe geotechnical and environmental challenges, including earthquakes.

M DURABILITY: our multi-filament polyester yarns, coated with polyethylene (LLDPE), provide excellent resistance against creep, installation damage, chemical and biological degradation.

M PROVEN: our products are independently tested and certified in accordance with the strictest national and international standards such as NTPEP & BBA.

M QUALITY: our solutions use the highest quality raw materials and provide world-class engineering with custom design and manufacturing capabilities.



Reinforcement - Walls & Slopes

Our range of geogrids, varying in strength and type, allow for the use of onsite materials as backfill for reinforced soil structures. Cost savings and carbon footprint reductions through the use of **ParaGrid**, **ParaDrain** & **ParaLink** in combination with onsite material, can be substantial. Our **MacRes** system combines the use of **ParaWeb** and concrete panels in a vertical faced MSE wall for urban environments.

Reinforcement - Load Transfer Platforms Over Pile Foundations, Soft Soil & Sinkholes

Maccaferri's **ParaLink** provides performance and reassurance in the most demanding applications; load transfer platforms over pile-foundations, soft soil and sinkholes. With excellent long-term design strength, **ParaLink** provides a technically sound and cost-effective alternative to traditional load transfer platforms using multiple layers of biaxial geogrids.

Drainage

To ensure proper drainage behind retaining walls and in environmental capping, **MacDrain** is a range of geocomposites, manufactured with a polymeric core and geotextile or geomembrane bonded to both sides of the core. They create a free conduit for water and fluid flow, from the adjacent materials.



Separation, Filtration & Protection

MacTex geotextiles are used to replace traditional methods when separating and filtering soils or layers, preventing cross-contamination, protecting membranes and structures, and improving the bearing capacity of weak soils. In dewatering, industrial or contaminated slurries can be pumped into our **MacTube** for safe and effective disposal.



Erosion Control & Surface Treatments

MacMat and **MacMat R**, 3D permanent turf reinforcement mats, increase soil's resistance to erosion. **MacMat R** and **MacGrid T** (reinforced) are used to reinforce soil veneers over low friction surfaces and in conjunction with soil nails on strengthened slopes. These treatments also encourage revegetation.



Base Stabilization & Asphalt Reinforcement

Our geogrids are used to extend the life of railway embankments, roads and asphalt pavement. **MacGrid AR** is a composite geogrid used to reduce reflective cracking in pavement overlays. **MacGrid EG** or **MacGrid WG S** biaxial geogrids are used to strengthen unbound base and sub-base, reducing rutting and thickness.



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Engineering a Better Solution

Maccaferri's motto is 'Engineering a Better Solution'; we don't merely supply products, but work in partnership with our clients, offering technical expertise to deliver versatile, cost effective and environmentally sound solutions. We aim to build mutually beneficial relationships through the quality of our service and solutions.

GLOBAL ENGINEERS

In the second half of the 19th century we invented Gabions and dramatically changed civil engineering landscape. We are still changing today. We work every day to find better solutions for our clients at every degree of latitude and longitude. Our worldwide network grows through innovation and diversification of sectors of activity and through an increasing range of high quality and environmentally friendly products and applications.

OFFICINE MACCAFERRI GROUP PROFILE

Founded in 1879, our Group soon became a worldwide reference in the design and development of advanced solutions, with offices in over 70 countries and 30 factories worldwide.

Our mission is to pursue excellence through continuous improvement, while delivering to customers engineered solutions that are innovative, advanced and environmentally friendly. We are committed to outstanding safety, quality and sustainability, to create value for all stakeholders as well as our communities.

MACCAFERRI APPLICATIONS



**RETAINING WALLS
& SOIL REINFORCEMENT**



HYDRAULIC WORKS



**ROCKFALL PROTECTION
& SNOW BARRIERS**



EROSION CONTROL



**SOIL STABILIZATION
& PAVEMENTS**



BASAL REINFORCEMENT



**COASTAL PROTECTION,
MARINE STRUCTURES
& PIPELINE PROTECTION**



**ENVIRONMENT,
DEWATERING & LANDFILLS**



DRAINAGE OF STRUCTURES



TUNNELLING*



**LANDSCAPE
& ARCHITECTURE**



SAFETY & NOISE BARRIERS



FENCING & WIRE



**AQUACULTURE
NETS/CAGES**



**CONCRETE FLOORING,
PRECAST & OTHER USES***



**INDUSTRIAL
MANUFACTURING**