

MACCAFERRI



ROCKFALL PROTECTION & SNOW BARRIERS



ROCKFALL & GEOHAZARD MITIGATION SYSTEMS

With over 60 years' experience in rockfall and geohazard mitigation, **Maccaferri offers a wide range of systems to stabilize rock faces, soil slopes, shallow landslides and debris flow**, reducing risk to people, buildings, and critical infrastructure.

We offer a wide range of engineered systems, certified and tested by leading institutes, in accordance with the latest standards. Maccaferri solutions are designed using state-of-the-art modeling software and techniques.

Developed in conjunction with engineers and contractors, Maccaferri's Rockfall Systems are **durable, effective, and simple to install**.





INDUSTRY PIONEERS

For 140 years, Maccaferri has been a leading supplier of materials to the construction industry. While often recognized as the innovator of the gabion basket, Maccaferri is also the **pioneer** of the rockfall and geohazard mitigation industry in the United States and around the world.

Maccaferri has provided rockfall mitigation systems on hundreds of projects throughout the U.S. and Canada, as well as throughout Europe, Asia, and Australia. Our products and systems are specified and used routinely by DOT's, USACE, and other federal and state agencies.

A SYSTEM FOR EVERY PROJECT

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.

WHY MACCAFERRI ROCKS

STRENGTH

Our simple and pinned drapery systems offer the highest tensile and punch resistance, with the lowest deformations in the industry.

PERFORMANCE

Our European Technical Approval Guideline (ETAG) tested rockfall barriers provide the lowest deformation with the highest residual height in the industry.

DURABILITY

Our GalMac and polymer coated products provide two-to-five times the service life of our competitors.

PROVEN

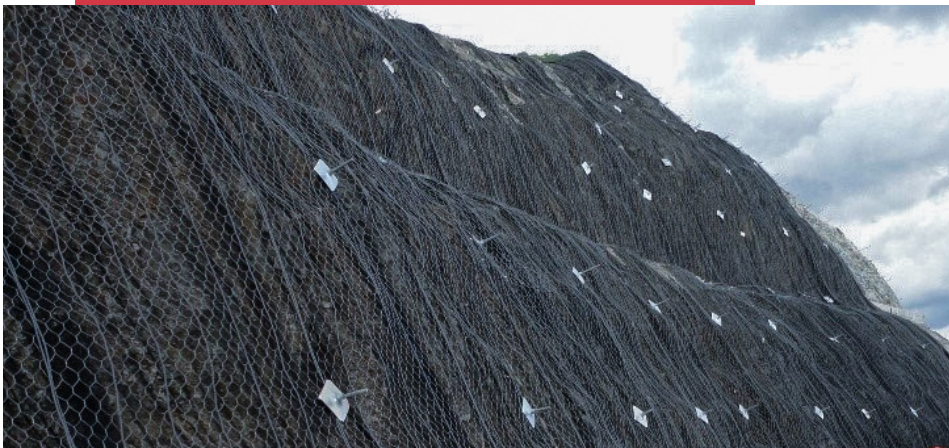
Our products are independently tested and certified in accordance with the strictest industry standards.

QUALITY

Our solutions use the highest quality raw materials and provide world-class engineering with custom design and manufacturing capabilities.

ROCKFALL AND GEOHAZARD MITIGATION SYSTEMS

- Simple and Pinned Drapery Systems
- Soil Nailing Surface Treatments
- Dynamic Rockfall Barriers
- Hybrid Barriers and Attenuators
- Debris Flow and Shallow Landslide Barriers
- Rockfall Embankments



Simple & Pinned Drapery Systems

Our **SteelGrid™** and **RockMesh®** are the strongest in the industry. They offer the lowest deformation and greatest service life of any other system on the market. Our products are independently tested and our design procedures are proven, reliable, and safe.



Soil Nailing Surface Treatments

The higher strength and lower elongation characteristics of **SteelGrid™** and **Macmat®R** compared to competitive products allow for greater anchor spacing in soil nailing applications, potentially providing significant cost savings to the owner.

Dynamic Rockfall Barriers

Our dynamic barrier systems have rating capacities ranging from 100 to 8500 kJ to intercept falling rock and boulders. They have been independently tested in accordance to the strictest industry standards and have proven to provide the best performance characteristics of any barrier system on the market.



Hybrid Barriers & Attenuators

These barrier systems combine the energy absorption capabilities of a dynamic rockfall barrier with the reduced-maintenance of drapery mesh, providing a cost-effective solution for long slopes with available catchment space.



Debris Flow & Shallow Landslide Barriers

Our **Debris Flow Barriers** are custom designed to the dimensions of each project, anticipated debris characteristics, and expected flow volume. They have patented energy dissipating devices offering greater strength and performance without the aesthetic intrusion of other debris flow systems.



Rockfall Embankments

Scalable to suit each hazard, embankments are used where large or repeated impacts are expected, including landslides, rockfalls, and avalanches. Featuring reinforced soil designs, they can often reuse on-site materials. Embankments can be designed to sustain impact energy capacities of over 20,000kJ.



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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	 SOIL STABILIZATION & PAVEMENTS	 DRAINAGE OF STRUCTURES	 FENCING & WIRE
 HYDRAULIC WORKS	 BASAL REINFORCEMENT	 TUNNELLING*	 AQUACULTURE NETS/CAGES
 ROCKFALL PROTECTION & SNOW BARRIERS	 COASTAL PROTECTION, MARINE STRUCTURES & PIPELINE PROTECTION	 LANDSCAPE & ARCHITECTURE	 CONCRETE FLOORING, PRECAST & OTHER USES*
 EROSION CONTROL	 ENVIRONMENT, DEWATERING & LANDFILLS	 SAFETY & NOISE BARRIERS	 INDUSTRIAL MANUFACTURING