

AN INNOVATIVE RESEARCH TO DEVELOP THE BEST SOLUTION FOR EROSION CONTROL

A three-year long physical test campaign was conducted by Maccaferri Innovation Center in collaboration with Colorado State University. Our aim was to test and develop new effective erosion control solutions.

In 2021 University of Milan research paper stated that **MacMat™** has the best performance in the market for revegetation potential.

The test showed in only 6 weeks **MacMat™** sustained a complete revegetation.

Download our software to design environmentally sound solutions



MACRA
Maccaferri River
Analysis

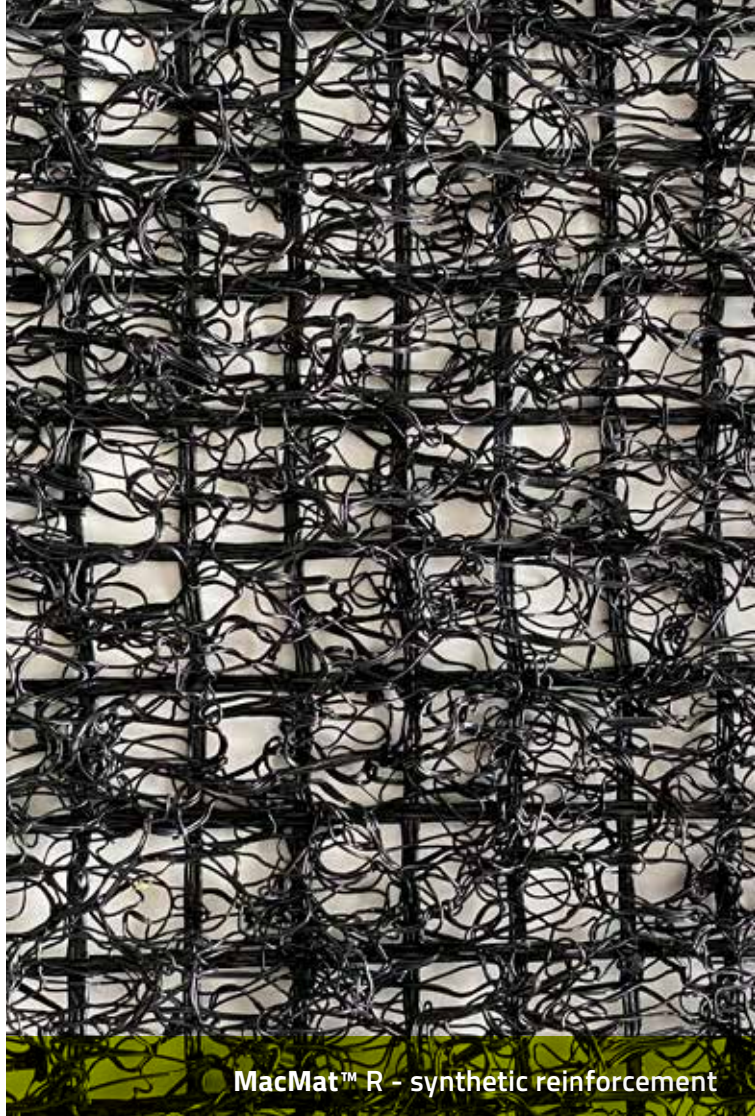
MACRUSLE

Design of geosynthetics for erosion control on slopes



Certification Number SP 01470

Maccaferri is committed to communicate reliable and comparable information about the life cycle environmental impacts of products.
Discover more at maccaferri.com/EPD



MacMat™ R - synthetic reinforcement



MacMat™ R revegetated

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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 late 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

MACCAFERRI



EROSION CONTROL
sustainable durability

A NATURAL, SOUND APPROACH

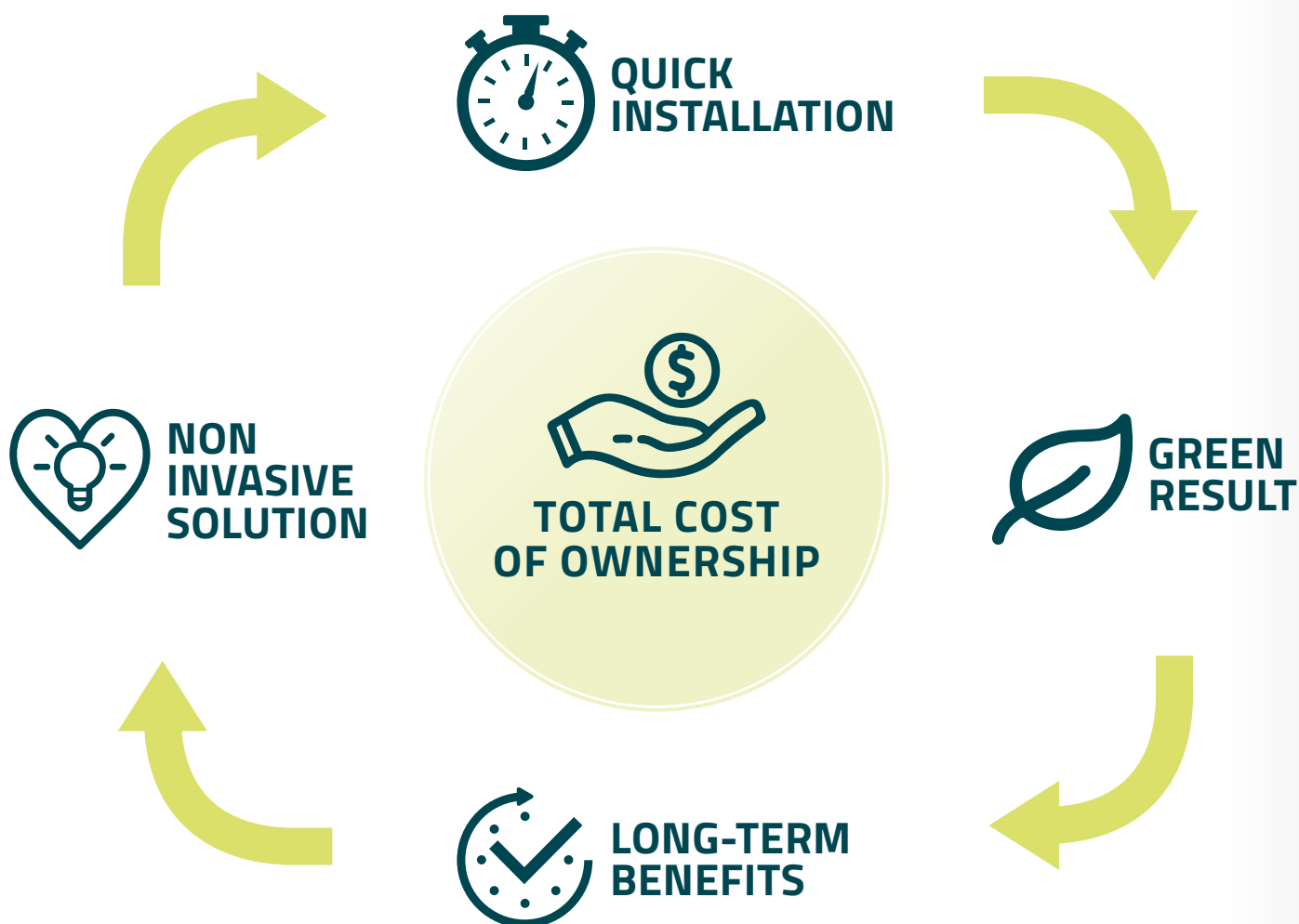
Erosion control solutions are increasingly widespread due to their benefits in the short and the long term periods.

In fact, erosion control solutions reduce the risk of damage to infrastructure lines due to superficial landslides and at the same time act as a first, natural like, protection barrier against slope instability phenomena.

Maccaferri products combine outstanding performances with a perfect integration with the surrounding natural environment.



erosion CONTROL
sustainable durability



MACMAT™
NATURALLY BETTER



Before

MACCAFERRI MACMAT™ **HOW TO MINIMIZE EROSION WITH REVEGETATION**

According to research paper made by University of Milan there are **7 key factors** that enhance revegetation on erosion control products:

M Light penetration
/ opening size

M Colour

M Weight

M Uniformity

M Thickness

M Water
absorption

M Roughness
and runoff

SUPERFAST REVEGETATION

**MacMat™ promotes full
revegetation in 6 weeks**, this
brings several positive effects:

- Development of a dense vegetative root network;
- Extra soil retention effect, increasing top soil deposit upon the geomat;
- Zero visual impact.



Grass

MacMat™ R

Roots

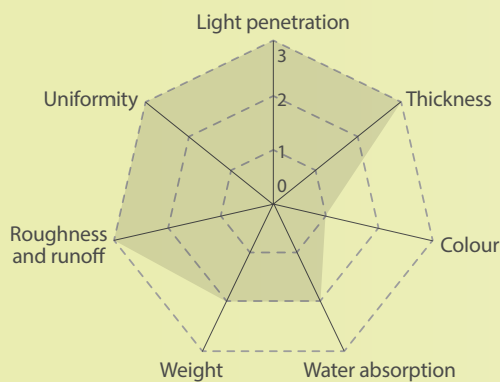
Soil

"We help nature grow"

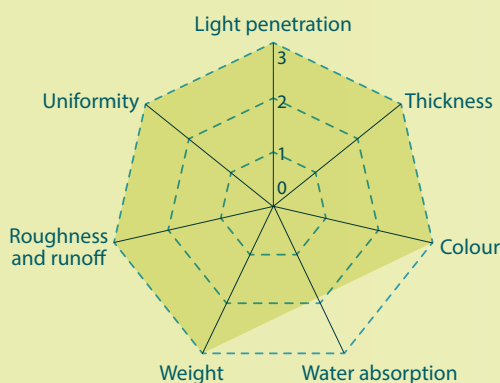


MACCAFERRI MACMAT™ THE BEST EROSION CONTROL SOLUTION IN THE MARKET

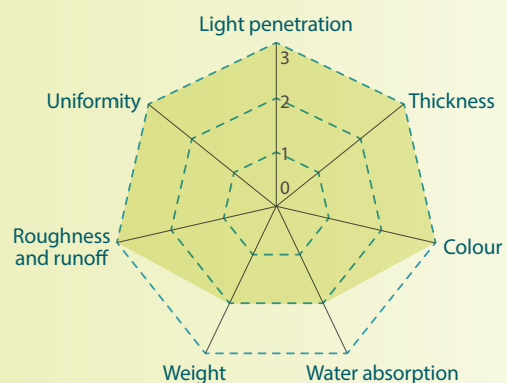
Thanks to our advanced production facilities
we deliver outstanding performance with
MacMat™ also where other systems fail.



Geomat average performance



MacMat™ R Steel average performance



MacMat™ R synthetic average performance