





**PROTECTING OUR PLANET WITH
SUSTAINABLE SOLUTIONS**

GEOFABRICS[®]
Sustainable solutions



THE GEOFABRICS DIFFERENCE

For over 40 years, **Geofabrics has been the market leading brand** in geosynthetic solutions in Australia, New Zealand and the Pacific Islands.

We are focused on **developing new and innovative products** and providing our customers with the world's best solutions for a wide range of civil and marine infrastructure projects.



Australian Manufacturing

Local manufacturing means we can employ more Australians. This provides our customers with:

- Greater quality control
- More reliable supply chain
- Shorter lead times
- Flexibility & responsiveness



Sustainability & Innovation

We help our clients mitigate environmental risk through world leading research and innovative product development.

We work to protect, contain and secure the physical environment using smart geosynthetic products.



Technical Leadership

We supply world-class technical leadership and engineering through our:

- Innovation program
- Industry education
- Design and independent testing services

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WHEN YOU CHOOSE GEOFABRICS, YOU CHOOSE LOCAL

Geofabrics is the only geotextile manufacturer in Australia. Our product solutions are made and tested to withstand local conditions.*

Along with providing a more reliable supply chain, shorter lead times and flexibility, local manufacturing allows us to have control over decisions that affect the environment.

Local content, sustainability and creating local jobs are key pillars driving the business.



National Branch Locations

Largest sales and distribution network of any geosynthetic supplier in Australasia.



Local Manufacturing

- Employing over 100 production staff across two sites – Ormeau, Queensland & Albury, New South Wales
- Contributing over \$10m p/a into regional communities
- Supporting over 1,000 active suppliers in regional Australia



* Products are tested by our GRID Laboratory to ensure compatibility to local conditions

SUSTAINABLE SOLUTIONS FOR EVERY SECTOR



Civic &
landscaping



Sports &
recreation



Renewable
energy



Slopes &
walls



Rail



Mining &
resources



Road



Tunnels



Defence



Waste &
containment



Water



Building



Ports &
airports



Coastal



Primary
industries

HOW GEOSYNTHETICS PROTECT, CONTAIN AND SECURE

According to the international geosynthetic institute (IGS) – every year humankind generates more than **10 billion tonnes of waste** from construction and demolition, much of which ends up in landfill. Mining produces around **200 billion tonnes of waste**.



Reduce energy consumption

- Reduced on-site excavation
- Less transport of bulky construction materials
- Faster and simpler construction
- Extension of infrastructure design life and reduced maintenance
- Contribution to the production and storage of green energy

Unequaled solutions

- Protection against contamination migration
- Permitting construction over otherwise unusable ground conditions
- Provision of 'artificial rocks' (sand-filled geosynthetics) for erosion & coastal protection

Environmental protection

- Facilitation of Sustainable Urban Drainage Systems (SUDS) surfaces
- Cost effective & resilient flood defense construction
- Provision of rapid emergency flooding prevention in disaster zones
- Coastal defense safeguarding property & natural habitats
- Rockslide prevention & protection
- Earthquake resistant infrastructure

Economic growth & social welfare

- Faster and more cost-effective construction
- Connection of communities via more resilient infrastructure

Protect surface & groundwater

- Landfill lining and containment of hazardous waste
- Sludge dewatering & purification, & silt fence systems
- Construction of sludge & tailings lagoon capping reducing mine and quarry impact
- Grey water storage for use
- Preservation of potable & irrigation water supplies by lining canals, dams & reservoirs
- Prevention of run-off contamination

THE EARTH IS CORE TO OUR BUSINESS

We work to protect, contain and secure the physical environment using smart geosynthetic products. We help our clients **mitigate environmental risk through world leading research** and innovative product development.

Recycled material

- Support circular economy by providing a use for recycled material in geosynthetic products (e.g. Bidim Green)
- Technology and software programs such as IFS, we are tracking the number of recycled bottles
- Proud member of the Infrastructure Sustainability Council (ISC)

Reducing energy intensive material use

- Reduce energy use & carbon emissions with lighter and less energy intensive materials in geosynthetics, compared to traditional construction materials
- Reduce the need to transport and use high quantities of quarried materials & aggregates to achieve the same result

Product packaging

- Ensure excessive packaging is avoided or reduced to optimise material efficiency
- Goal is to achieve 100% recycled packaging & 50% recyclable packaging for locally-made products
- Signatory of the Australian Packaging Covenant & report annually

Energy saving

- Implement changes to reduce our energy impact with solar systems and LED lighting
- Improve energy efficiency of production
- Reduce production waste



70
MILLION
plastic bottles
recycled and
material reused

GOAL OF
100%
RECYCLED
packaging



THE EARTH IS CORE TO OUR BUSINESS

Containing contaminants

- Contain & seal PFAS & contaminants of emerging concern (CECs) using Sorbseal to protect surrounding environment & waterways

Erosion & revegetation

- Prevent erosion to coastal shorelines by extreme weather events
- Work with coastal communities and developing countries
- Won AusTrade Australian Export Award in 2018 for the positive environmental impact our Australian made Elcorock coastal protection system had in Tuvalu & New Zealand



Used as a liner
or laid over
contaminated
Soil to

**STOP
PFAS**

leaking out

Developed
Elcorock over

35 years

of client and
environmental
needs

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THE UN SUSTAINABLE DEVELOPMENT GOALS

The UN Sustainable Development Goals (SDGs) were developed as a plan of action to build a global partnership for sustainable development to improve human lives and protect the environment. We are guided by the UN SDGs and are making changes where we can have the most impact. When geosynthetics are used in infrastructure, a number of SDGs can be achieved:



Geosynthetics can be used to help prevent water scarcity and ensure water quality is protected:

- By stopping leaks in water infrastructure – geomembrane linings have been shown to leak less than 10 times that of cement concrete linings
- By preserving water quality & supply by protecting it from contamination



By maximising the use of site- won fill & avoiding the need to import additional construction materials, Geosynthetics can help to reduce the cost & impact of building energy infrastructure:

- Less need to quarry aggregates
- Fewer machines needed to build infrastructure, reduces carbon footprint
- Improves both short and long-term haul road performance

THE UN SUSTAINABLE DEVELOPMENT GOALS



- Many of the products are manufactured locally in our two production plants in Albury (NSW) & Ormeau (QLD)
- We employ more than 100 manufacturing staff, providing opportunities in regional areas for people from diverse backgrounds



- Geosynthetic lining systems are equivalent or superior to traditional soil containment of waste & contaminants
- Sorbseal is used to protect the environment & waterways from PFAS & other emerging contaminants
- Surface erosion systems are used to prevent erosion & protect waterways from dust & sediment
- Rising sea levels & an increase in significant weather events present serious challenges to coastal communities
- Offshore artificial reefs, sandbags & the protection & reinstatement of mangroves & marshlands can reduce the effects of coastal and estuarine erosion
- Enabling economical road & rail construction provides access & opportunities for people in remote areas



UP TO

65%

**CARBON FOOTPRINT
REDUCTION WHEN
USING GEOSYNTHETICS
IN CONSTRUCTION**

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AUSTRALIAN-MADE WITH RECYCLED MATERIAL

Our focus is to **protect, contain and secure the physical environment** by using sustainable geosynthetic product solutions.

We help mitigate environmental risk through:

- World-leading R&D and innovative product development
- Manufacturing products using Australian sourced PET & HDPE recycled plastic materials to support a circular economy

By incorporating recycled material into products such as Bidim® Green, Tracktex® Green, Sealmac® Green, Bitex® Green, Enduraseal® Green and Megaflo® Green, Geofabrics are reducing waste from Australian landfill.

With Australia creating over 74 million tonnes of waste each year & 130,000 tonnes of plastic ending up in our water ways & oceans, it's more important than ever to choose sustainable solutions



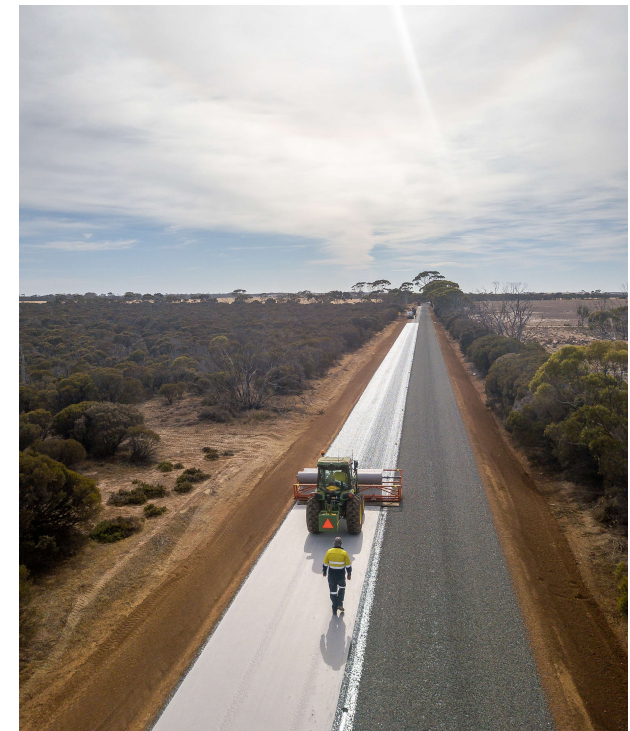
PARTNERSHIP WITH INFRASTRUCTURE SUSTAINABILITY COUNCIL (ISC)



Peak industry body with a vision to deliver **a positive future for people, the planet and the economy** across Australia & New Zealand. Benefits of rating scheme:

- **Benchmarking:** Provides a common national language for sustainability in infrastructure
- **Procurement:** Provides a framework for consistent application and evaluation of sustainability in the tender process
- **Reduce risk:** Helps in scoping whole-of-life sustainability risks for projects and assets, enabling smarter solutions that reduce risks and costs
- **ROI:** Fosters efficiency and waste reduction, reducing costs
- **Innovation:** Fosters innovation and continuous improvement in the sustainability outcomes from infrastructure

Our membership is in recognition of our long-standing commitment to a greener future through using geosynthetics in major projects.



Bidim® Green, Megaflo® Green and Sealmac® Green are available on the ISupply directory.

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INNOVATION & EDUCATION

We recognize the extraordinary talents of engineers and the opportunities they have, to bring about change for the future. Geofabrics are committed to further education & supporting the next generation of engineers.

- Launch of Geofabrics Academy with free CPD e-learning webinars for up-to-date industry information
- Partnership with Monash University to sponsor & mentor PHD candidates
- Partnership with the University of Technology Sydney to create & sponsor the John Bolton Civil Engineering prize
- Supporting the next generation of civil engineers through the sponsorship of the Monash University Prize for Best Geosynthetics Final Year Project

GEOFABRICS ACADEMY™



In proud partnership with:



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