

# GEOFABRICS®

## Corporate Brochure



QUALITY - SUPPORT - EXPERTISE



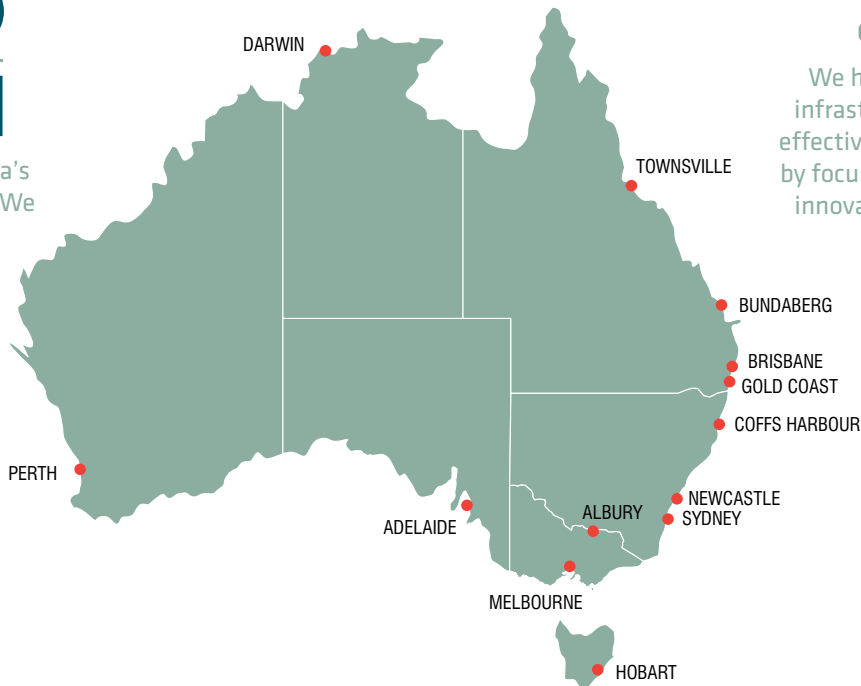
Geofabrics Australasia has been supplying geosynthetic and geotechnical solutions since 1977. Our core products are manufactured in Australia to the highest quality standards.

Our experienced people provide detailed advice to engineering problems in the road and railway, landfill, coastal and mining sectors.

## OUR 2020 VISION

### 2020 VISION

We will excel as Australia's geosynthetic specialist. We will achieve sustainable and profitable growth through technical leadership.



### How we support our customers

We help customers deliver infrastructure projects, cost effectively with minimal risk, by focussing on geosynthetic innovation, quality, support and expertise.

### WHY CHOOSE US?

Whatever the size or complexity of your project, Geofabrics is your geosynthetic partner to help you complete your project. Our customers work with us for many reasons, including:



#### QUALITY

Our products are world-class in terms of product quality.

We are rigorous in our testing standards and regularly perform project specific testing to assist engineers in using geosynthetic products appropriately.



#### SUPPORT

We offer a high level of technical support to our customers, including design assistance, construction tips, logistical support, design software, laboratory support and installation systems.



#### EXPERTISE

Our employees are well-trained in design and installation processes of geosynthetic products.

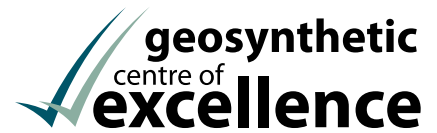
Our technical & laboratory teams are industry experts, providing unparalleled support to designers and contractors.

## OUR LABORATORIES

Geofabrics continues to invest in our laboratory support services to assist our customers in selecting the most appropriate and cost-effective geosynthetic solution.

### The Geosynthetic Centre of Excellence

The Geosynthetic Centre of Excellence is a dedicated R&D laboratory, and assists you in solving your site-specific problem, whether it be a mine tailings dam, a landfill or another structure utilising geosynthetics.



Our facility provides evidence based research to help you select and optimise the right geosynthetic product or system for critical applications.

The Geosynthetic Centre of Excellence works in a collaborative way with consulting engineers, regulators, universities and government agencies. Increased environmental regulation and community involvement is driving engineers to understand in greater detail the role of geosynthetics in engineering structures, and the Geosynthetic Centre of Excellence is a key part in selecting the appropriate geosynthetic solution.

### Geosynthetic Testing Services

Geosynthetic Testing Services has operated since 1990 as an independent geosynthetic testing laboratory in Albury (NSW). It is a NATA accredited laboratory, certified to perform over 40 different geosynthetic test methods and supports our customers for their **Construction Quality Assurance** needs.

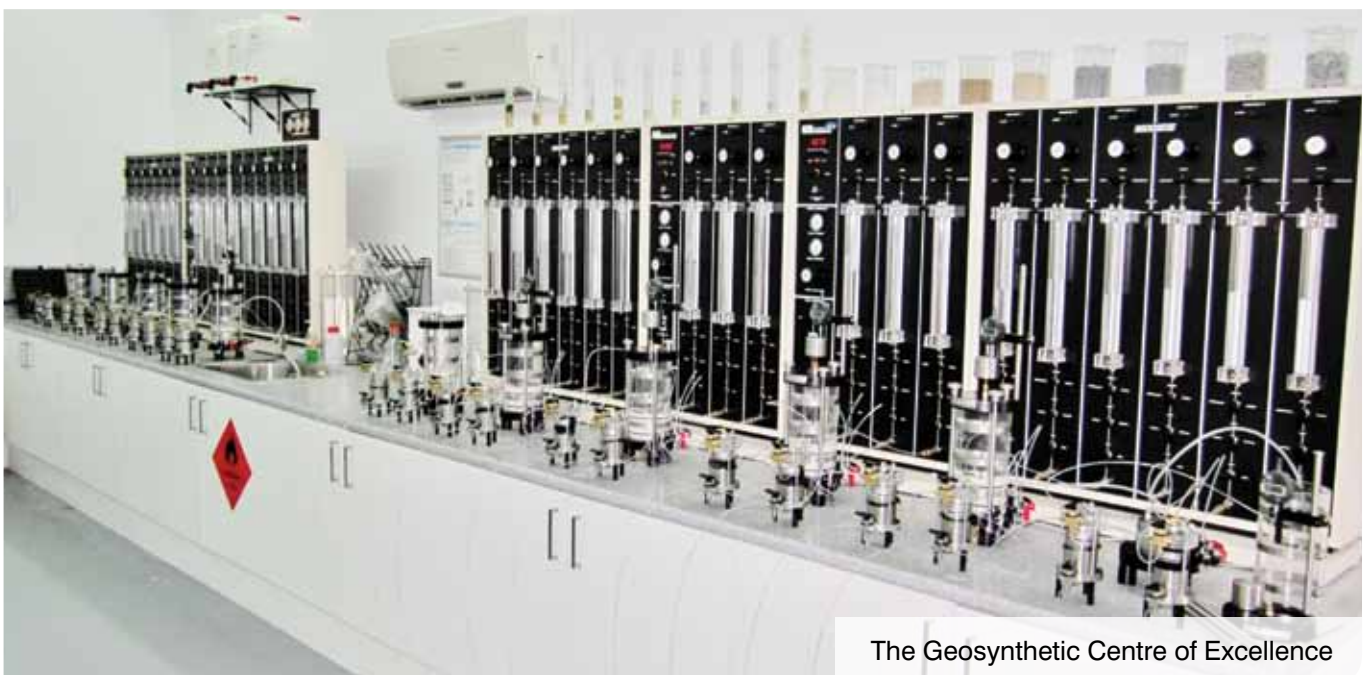


The Geosynthetic Testing Services laboratory reduces our customers risk by proving the product supplied to site is in accordance with the project specification. Our rapid turn-around service minimises delays on site prior to installation.

### Manufacturing Quality Assurance

Our geosynthetic products are manufactured under quality controlled conditions to provide you with reassurance that our products have been rigorously tested before supply to your site.

Our Manufacturing Quality Assurance programs clearly state the test methods and test frequencies, and are available for your review. Our production facilities are always available for a supplier quality audit.



The Geosynthetic Centre of Excellence

## MAJOR PRODUCTS

### bidim® NON-WOVEN GEOTEXTILES

**bidim®** nonwoven geotextile is the leading geotextile in Australia. **bidim®** nonwoven geotextiles provide a variety of functions including separation, filtration, drainage, protection and reinforcement.

With 6 metre wide rolls reducing installation costs, and the use of Minimum Average Roll Values as specification parameters, **bidim®** geotextiles offer engineers greater benefits and reduced risks.



### MEGAFLO® SUBSOIL DRAINAGE

The **Megaflo®** panel drain system combines outstanding drainage response times with significantly lower installed cost than traditional road-edge drainage systems. The **Megaflo®** panel drain has a very high crush strength in both the vertical and horizontal applications allowing it to be used in roads and highways, sporting fields and golf courses.



### ELCOSEAL® GEOSYNTHETIC CLAY LINERS (GCLs)

**ELCOSEAL®** GCLs blend the sealing performance of bentonite clay and the strength of geotextiles to create a unique containment solution. Our Geosynthetic Centre of Excellence regularly tests complex leachate solutions to ensure **ELCOSEAL®** GCLs are an effective containment system for use in landfills, tailings dams and other waste or water containment structures.



### TENSAR® GEOGRIDS

**Tensar® TriAx™** geogrids are widely used in the construction of roads and railways over soft ground, whilst **Tensar® RE** geogrids are used in the construction of retaining walls. **Tensar®** is the world-leader in geogrid technology, and support their products with advanced design software and decades of extensive research and development.



### SEALMAC® PAVING FABRICS

**Sealmac® paving fabrics** provide a stress relief and waterproofing function to reduce reflective cracking in new and existing paved roads. Designed specifically for Australian conditions, **Sealmac® paving fabrics** have been used around Australia for over 20 years.

**Sealmac® AR** and **GlasGrid®** asphalt reinforcing grids reduce the impact of fatigue, rutting and cracking to provide an economical benefit to asset owners through enhanced pavement performance.



### GABIONS AND RENO™ MATTRESSES

**Gabions and Reno™ Mattresses** are woven wire mesh units, laced together and filled with stones to form monolithic structures. **Gabions and Reno™ Mattresses** provide a cost effective solution as retaining walls, architectural or hydraulic structures. Advanced design software is available to assist engineers in designing retaining walls and hydraulic structures.



## KEY APPLICATIONS & CORE PRODUCTS

### Highways and Roads

**bidim**<sup>®</sup> nonwoven geotextiles  
**Megaflo**<sup>®</sup> panel drains  
**Tensar**<sup>®</sup> geogrids  
**Gabions & Reno**<sup>®</sup> mattresses  
**Geolon**<sup>®</sup> high strength geotextiles  
**Geoweb**<sup>®</sup> cellular confinement  
**SmartDitch**<sup>®</sup> channel lining system  
 Erosion control solutions  
 Rockfall control systems



### Pavements

**Sealmac**<sup>®</sup> PF paving fabrics  
**Sealmac**<sup>®</sup> AR asphalt reinforcement grid  
**GlasGrid**<sup>®</sup> asphalt reinforcement grid



### Mining

**bidim**<sup>®</sup> nonwoven geotextiles  
**ELCOSEAL**<sup>®</sup> geosynthetic clay liners  
**Trinet**<sup>®</sup> triaxial geonets  
**Tensar**<sup>®</sup> geogrids  
**Geoweb**<sup>®</sup> cellular confinement  
**SmartDitch**<sup>®</sup> channel lining system  
**Geolon**<sup>®</sup> high strength geotextiles  
 Erosion control solutions  
 Gabions & Reno mattresses  
 Rockfall control systems



### Waste Containment (Landfills and Other Structures)

**bidim**<sup>®</sup> nonwoven geotextiles  
**ELCOSEAL**<sup>®</sup> geosynthetic clay liners  
**Trinet**<sup>®</sup> triaxial geonets  
**SmartDitch**<sup>®</sup> channel lining system



### Railways

**bidim**<sup>®</sup> nonwoven geotextiles  
**Tensar**<sup>®</sup> geogrids  
**Tracktex**<sup>®</sup> anti-pumping geosynthetics  
**Megaflo**<sup>®</sup> panel drains  
**Geoweb**<sup>®</sup> cellular confinement  
**Gabions & Reno**<sup>®</sup> mattresses  
**SmartDitch**<sup>®</sup> channel lining system  
**Geolon**<sup>®</sup> high strength geotextiles  
 Rockfall control systems



### Coastal Engineering

**ELCOROCK**<sup>®</sup> coastal protection system  
**Texcel**<sup>®</sup> staple fibre geotextiles



### Golf Courses and Sports Fields

**BunkerMat**<sup>®</sup> bunker liners  
**Megaflo**<sup>®</sup> panel drains  
**ELCOSEAL**<sup>®</sup> geosynthetic clay liners  
**SmartDitch**<sup>®</sup> channel lining system



# QUALITY - SUPPORT - EXPERTISE

## OUR QUALITY

Our customers expect quality – and Geofabrics doesn't disappoint. We deliver quality products to your site, supported by a traceable and transparent Manufacturing Quality Assurance program and our laboratories are accredited annually by external auditors.

Our product quality is supported by our commitment to safety. We work with customers to minimise any materials handling risk associated with the use of geosynthetics. We welcome a safety audit of our systems, production sites or installation equipment from our customers.

## OUR SUPPORT



### Design Support

Geofabrics provides a range of services to assist you in designing the most appropriate and economical geosynthetic solution to your infrastructure problem, thereby reducing your design risk and providing engineering support. Our services that customers frequently make use of include:

- Testing at the Geosynthetic Centre of Excellence to confirm the design of the system in terms of performance and inter-action between the elements of the system.
- Concept proposals and drawings.
- Design suggestions and model specifications.
- Design software.



### Tender Support

During the tender phase, Geofabrics works with contractors to review the project specification, reducing risk and adding value to our customer through:

- Ensuring product compliance to the project specification, particularly around our Manufacturing Quality Assurance compliance and any additional testing requirements.
- Providing alternative suggestions to either reduce your costs, enhance installation times or reduce supply chain risk.
- Identifying Construction Quality Assurance requirements early.



### On-Site and Installation Support

Geofabrics assists our customers during the on-site phase of the project, as there are a number of complex issues that need to be managed well. Our support tools for on-site activities include:

- Lifting equipment that is accredited to the required Australian safety standards with supporting documentation to mitigate the materials handling WHS risk on your site.
- Installation tools to enhance the productivity of your installation teams and reduce any safety risks.
- Installation guidelines and videos.
- Work method statements for unloading or handling our products supplied to site.
- Providing alternative products that meet the project specification but achieve cost reductions through product supply or installation cost.
- Training of installation teams prior to the arrival of products on site or at the start of your site installation activities.

### Additional Support

At any stage during the project, Geofabrics welcomes supplier Quality Assurance audits or visits to our production and laboratory facilities. We regularly host industry groups or companies to enhance their knowledge of geosynthetics.

## QUALITY - SUPPORT - EXPERTISE

### OUR EXPERTISE

Geofabrics specialises in geosynthetics, and pride ourselves on our expertise in this field. We are much more than a product supplier – we work in partnership with our customers by offering technical expertise to deliver versatile, cost-effective and environmentally sensitive solutions. Our customers can access and leverage our geosynthetic expertise in many ways, for:

- We are regularly conducting educational workshops, either for the general industry or for an individual company. These seminars range from introductory education to detailed design methods and software training. We also offer a range of online lectures and videos to educate engineers in the use, testing and installation of geosynthetics.
- We are aligned to world-leading partners who are recognised as leaders in their field, including TenCate, Officine Maccaferri, Presto and Intermas.
- We are experts in managing our risks and will always have the appropriate insurance cover across a range of policies. This assists Geofabrics meeting the commercial elements of your project in terms of risk mitigation.
- Our innovation and R&D programs continually enhance our understanding of geosynthetics and their performance in challenging environments. We collaborate with other companies and external research bodies, including sponsoring PhD students at universities.
- Our people are well trained in geosynthetics, and are available at all times to support you with any questions or issues. We employ application and product engineers with extensive knowledge and experience of our products, solutions and systems.



## OUR SOFTWARE

High quality products are only part of the solution – the correct design and detailing of a solution are equally important. Our software uses the latest modelling techniques in accordance with defined design methodologies to assist engineers in delivering cost-effective solutions.

### TENSAR® SOFTWARE

TensarSoil	TensarSlope	TensarPave
Design of reinforced soil walls and slopes using <b>Tensar®</b> geogrids	Design of slopes and retaining walls using <b>Tensar®</b> geogrids, based on limit equilibrium techniques	For flexible pavements with <b>Tensar®</b> geogrids, following a modified version of the AASHTO Guide for Design of Pavement Structures

### MACCAFERRI SOFTWARE

MACSTARS W	MACRA 1® and MACRA 2®	GAWACWIN®
Design of reinforced soil slopes and walls using geogrids and soil nails	Design of hydraulic erosion protection works	Stability analysis of Maccaferri gabion retaining walls
<b>Secured Rockfall Drapery – MacRO 1™</b>		<b>Simple Rockfall Drapery – MacRO 2™</b>
Improve the rock face stability through mesh facing and patterned nails		Rockfall drapery systems contain loose debris, allowing it to fall safely to the toe of the rock slope

### MEGAFLO® CALCULATORS

We support our **Megaflo®** sub-surface drainage system with installation cost calculators for both road edge and sports field drainage, as well as a simple design spread-sheet for sports fields to ensure the spacing of the drainage system is appropriate.

Geofabrics is committed to supporting engineers deliver their infrastructure projects cost effectively and with minimal risk. We build mutually beneficial relationships with clients through our focus on Quality, Support and Expertise. This is why many Australian contractors, engineers and government authorities choose to work with Geofabrics Australasia for all of their geosynthetic needs.

For more information on our products or services, please contact your local sales team or visit our website.

GEOFABRICS® is a registered trade mark of Geofabrics Australasia Pty Ltd.



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