



SUPERIOR FILTRATION AND PROTECTION FOR HARSH COASTAL CONDITIONS

TEXCEL® R NON-WOVEN STAPLE FIBRE GEOTEXTILE





25
years
of proven
success



Texcel R non-woven staple fibre geotextile

Texcel® R is a premium non-woven staple fibre geotextile made in Australia from high-quality polyester fibres. Designed to handle tough environmental conditions, Texcel R geotextile offers flexibility and resilience in demanding coastal and hydraulic applications.

With over 25 years of research, development and testing, Texcel R non-woven staple fibre geotextile delivers superior filtration performance and long-term protection beneath rock revetments, breakwaters, and other structures exposed to tidal, wave and hydraulic forces. It plays a critical role in maintaining the structural integrity of coastal defence systems by providing a stable and reliable filtration layer.

Why choose Texcel R?

Texcel R geotextile offers:

- Exceptional resistance to abrasion and UV exposure, ensuring long-lasting performance in exposed coastal environments
- Proven performance in filtration and protection, helping prevent soil erosion and scouring under rock and concrete armour layers
- Locally made in Australia, with custom roll lengths and grades available to suit specific project requirements and chemical compatibility
- Cost savings in materials and installation, thanks to compact 6 metre wide roll sizes that speed up on-site handling and placement
- Expert technical support, including guidance from Geofabrics engineers and access to specialised installation equipment
- Full traceability, with every roll manufactured to meet Australian and New Zealand standards
- Backed by our dedicated GRID research team, with testing equipment including a custom-built rock and boulder testing rig designed specifically for Texcel geotextiles

Recommended use with Elcorock

Texcel R is an ideal geotextile to be used in conjunction with Elcorock® geosynthetic sand containers. When installed beneath Elcorock structures, Texcel R provides high resistance to installation damage and delivers reliable filtration and separation performance for long-term coastal protection.

Sustainability with Texcel R


As coastal erosion continues to threaten public infrastructure, residential areas and natural environments across Australia, New Zealand and the Pacific, sustainable shoreline protection is more important than ever. Texcel R geotextile plays a vital role in building long-lasting and environmentally conscious coastal defence systems. By providing effective filtration and separation under rock revetments and other marine structures, Texcel R helps minimise erosion while supporting the integrity of the surrounding landscape.

Locally manufactured in Australia, Texcel R geotextile supports reduced transport emissions and ensures supply chain reliability.

TEXCEL R PRODUCT RANGE

Product Code	Product Description	Width	Length
600R600050	Texcel 600R	6m	50m
900R600050	Texcel 900R	6m	50m
1200R600050	Texcel 1200R	6m	50m

APPLICATIONS

	SEA WALLS & REVETMENTS	<ul style="list-style-type: none"> • Designed to protect shorelines from erosion and wave action by dissipating energy • Delivers robust filtration beneath rock armour, withstanding hydraulic forces and ensuring long-lasting durability
	GROYNES & BREAKWATERS	<ul style="list-style-type: none"> • Captures sand movement and reduce coastal erosion • Provides a flexible, stable solution for long-term coastal protection
	RIVER & ESTUARY WORKS	<ul style="list-style-type: none"> • Prevents soil loss and structural weakening behind revetments • Acts as a separation and filtration layer to maintain performance of placed fill over soft subgrades
	SAND CONTAINERS & ARTIFICIAL REEFS	<ul style="list-style-type: none"> • UV-resistant and engineered for constructing large sand containers of up to 300 tonnes • Ideal for shoreline protection, surf enhancement, marine habitat creation, and emergency response
	WASTE & CONTAINMENT SYSTEMS	<ul style="list-style-type: none"> • Heavyweight geotextile material protects geomembranes from puncture and stress cracking • Used in landfills and mining to ensure liner longevity and containment integrity

ADDITIONAL BENEFITS OF WORKING WITH GEOFABRICS

REDUCED RISK	<ul style="list-style-type: none"> • Manufactured under strict QA protocols, with each roll traceable to individual test results from certified labs • Routine product sampling and exhumation confirm performance and durability across real-world installations, even after 20+ years in the ground
ENHANCED PERFORMANCE AND RELIABILITY	<ul style="list-style-type: none"> • UV-stabilised and manufactured in Australia to meet local and international standards under ISO 9001:2015 certification • Backed by laboratory testing and proven field performance across a wide range of applications • Batch-level traceability and stringent testing offer consistent, reliable outcomes on every project
COST BENEFITS	<ul style="list-style-type: none"> • Serves as a direct replacement for traditional granular filters, reducing material and transport costs • Supplied in tightly rolled formats, up to 6 metre wide, to streamline delivery and installation • Faster installation times minimise labour and equipment costs onsite
TECHNICAL EVALUATION AND INSTALLATION SUPPORT	<ul style="list-style-type: none"> • Expert support available from our engineers to ensure proper selection and use • Installation tools available to assist with consistent, efficient application in the field
CUSTOM MANUFACTURING FOR LARGE PROJECTS	<ul style="list-style-type: none"> • Custom manufacturing available from our QLD plant for projects over 30,000 m² • Options include polypropylene geotextiles for alkaline soils, heat-set finishes, and heavyweight grades tailored to project-specific needs



AUSTRALIAN-MADE GEOFABRICS

Geofabrics is the only geotextile manufacturer in Australia, with plants in Albury and Ormeau. We pride ourselves on providing unrivalled service to our customers. We can recommend the best geosynthetic product to achieve the objectives of your project and ensure it's available when you need it.

Over 40 years of experience allows our technical staff to provide practical support, based on local conditions. We are proud to have been recognised in the Australian Financial Review (AFR) Most Innovative Company list in 2020 with Bidim Green.

In 2021, Geofabrics ranked #1 in AFR's Most Innovative Company for Manufacturing and Consumer Goods for Sorbseal.

With a view to the future, we are committed to improving the sustainability of our business by reducing waste to landfill, lowering our carbon emissions and investing in our people.

— FINANCIAL REVIEW BOSS —
MOST INNOVATIVE
COMPANIES



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VISIT **GEOFABRICS.COM.AU** OR CALL 1300 60 60 20 (AU)
OR **GEOFABRICS.CO.NZ** OR CALL 0800 60 60 20 (NZ)



GEOFABRICS®
Sustainable solutions

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