

bidim[®] GREEN

PROUDLY AUSTRALIAN MADE
NONWOVEN GEOTEXTILE



 RECYCLED GEOTEXTILE

 RECYCLED WRAP

 RECYCLED CORE



GEOFABRICS[®]
Smarter Infrastructure

OUR COMMITMENT

WE ARE COMMITTED TO BEING ENVIRONMENTALLY CONSCIOUS.

WE ARE CHALLENGING TRADITIONAL MANUFACTURING FROM NON-RENEWABLE SOURCES AND ACHIEVING THE SAME HIGH QUALITY WITH RECYCLED MATERIALS.



Geofabrics is a proud member of the Infrastructure Sustainability Council of Australia (ISCA). bidim® Green is now available on ISupply.

THE STORY STARTS HERE...

**MANUFACTURED IN AUSTRALIA
| AUSTRALIAN RAW MATERIALS |
RECYCLED CONTENT**

Why bidim® Green?

bidim® Green is the newest version of Australia's Number 1 geotextile – you can expect the same performance, now utilising recycled materials.

bidim® Green is a nonwoven geotextile designed to provide effective and economic solutions to a multitude of engineering applications. Introduced into Australia in 1978, bidim® geotextiles have a proven track record, which is unsurpassed.

bidim® Green nonwoven geotextile is manufactured to the highest international standards and has ISO 9001:2015 accreditation.

As a result you can rely on the fact that, when you use bidim® Green for your project, you receive the same high quality from the first to the last metre on each roll.

Geofabrics is the only geotextile manufacturer in Australia, with plants in Albury, New South Wales and Ormeau, South Queensland. As Australia's geotextile supplier of choice we pride ourselves in providing the best service to customers throughout the country.

The knowledge gained over the past 35 years allows our technical staff to provide relevant support based on local conditions and sound experience.

WE ARE INTRODUCING THE NEW BIDIM® GREEN RANGE, WHICH IS MADE UP OF RECYCLED GEOTEXTILE, WRAP AND CORE. GOING GREEN MEANS, WE CAN SUPPORT OUR CUSTOMERS WITH A SUSTAINABLE PRODUCT WHICH INCLUDES AUSTRALIAN SOURCED RECYCLED MATERIALS WHICH IS OUR COMMITMENT TO A NATIONAL REDUCTION IN WASTE TO LANDFILL



REDUCED RISK

bidim® geotextiles are produced to strict Manufacturing Quality Assurance provided by a geosynthetics NATA accredited laboratory, ensuring consistent quality for the entire project. Rolls are numbered individually and traceable back to the actual QA test results. Laboratory support is provided for the construction QA process for bidim geotextiles.

ENHANCED PERFORMANCE AND RELIABILITY

bidim® nonwoven geotextiles have been manufactured in Australia and installed to meet Australian specifications and conditions for over 25 years. The use and effectiveness in a large range of applications can be supported by laboratory testing and ongoing field performance.

COST BENEFITS

The incorporation of bidim® geotextiles:

- a) Reduces the volume of quarried sand and rock,
- b) Reduces construction times over swampy ground.

Wider and longer roll offerings to reduce waste with overlaps and save on transportation costs.

DESIGN AND INSTALLATION SUPPORT

bidim® nonwoven geotextiles are supported by technical assistance from our Geofabrics engineers. Installation equipment is also available to assist with efficient and correct installation.

REDUCE LANDFILL

Australian manufacturers have a responsibility to source and adopt local recycled raw materials into their manufacturing process. Geofabrics will continue innovating around existing products and seeking opportunities to replace virgin material for recycled material.

CIRCULAR ECONOMY



bidim[®] Green SUSTAINABILITY

Geofabrics Australasia has established a position of market leadership through an unwavering commitment to the manufacture and supply of civil engineered products that solve complex infrastructure problems.

In 2015, Geofabrics embarked on an ambitious, company-wide program of continuous improvement which we captured in our broader 2020 Vision agenda for the business. Our 2020 Vision included a range of actions which have now been successfully delivered, creating new products to solve the increasingly complex infrastructure problems of our customers, as well as reducing waste in our manufacturing processes.

Being awarded the Victorian Exporter of the Year for 3 consecutive years (2016 – 2018) and the Australian Exporter of the Year in 2018 in the Environmental Solutions category demonstrates our commitment and expertise in sustainability.

With a broad geographic footprint of branch locations and as a regional manufacturer, our 2020 Vision agenda also focused on reducing the movement of product between our branch locations with the objective of reducing our CO₂ emissions – having the right stock, in the right locations at the right time.

Now, as we approach the end date for our 2020 Vision, we have reset our innovation and sustainability objectives for the next 5 years and these programs include a range of initiatives which we are certain will:

- Continue to position Geofabrics as a world leader in complex environmental solutions including the containment of emerging contaminants (such as PFAS man-made chemicals)
- The development of a geotextile product range which includes Australian sourced recycled materials as our commitment to a national reduction in waste to landfill
- Investment in additional manufacturing capability in the production of recycled bidim[®] Green geotextile

RECYCLED GEOTEXTILES

bidim[®] has historically been manufactured with polymer sourced from offshore markets. bidim[®] Green is a product enhancement that will replace between 500 – 1,000 tonnes of offshore sourced polymer with Australian sourced recycled plastics. The significant volume of recycled Australian plastics expected to be drawn down in the first year post-launch of bidim[®] Green will create and strengthen an Australian recycling supply chain. bidim[®] Green will provide the plastics recycling market with volume and mature Australia's capability in recycling plastic.

RECYCLED CORE

We will utilise 100% reused cores collected from construction projects.

RECYCLED WRAP

The recycled content in bidim[®] Green wrap is as high as 80%. The source of the recycled material is the waste generated by the suppliers' food packaging material which is processed by a commercial recycler and returned, which means nothing ends up in the landfill.

THE FUTURE

Geofabrics is committed to utilising more recycled material in producing bidim[®] Green as soon as this becomes possible.

DESIGNED FOR ROADS

ROADS & HIGHWAYS

Nearly every road built today uses a nonwoven geotextile, to provide separation and filtration under the road formation. The ingress of water into road pavements will present long term damage to the subgrade performance; therefore the rapid removal of this water is of the utmost importance.

bidim® Green is a bidimensional geotextile - meaning it has similar strength properties in both directions. Standard road construction practice requires the inclusion of road edge drainage systems which incorporate

geotextiles; in order to optimise performance of these drains a geotextile with high flow rates is desirable. The three dimensional structure of the nonwoven geotextile provides numerous flow paths, with the result that bidim green geotextiles allow water to flow at rates which exceed most natural materials it is placed in contact with. bidim® Green geotextile meets the published specification of all the Australian road authorities, offering a unique proposition to road authorities to be part of the circular economy journey.

ROAD AUTHORITIES CAN NOW MAXIMISE THE LEVEL OF RECYCLED PRODUCTS USED DURING ROAD MAINTENANCE AND CONSTRUCTION, WHILE STILL MAINTAINING THE QUALITY OF THE ROADS



SEPARATION

bidim® Green geotextiles should be used in the construction of roads where the ground is soft and unstable. Using a layer of bidim® Green geotextile to separate the soft ground from the fill material will reduce the amount of fill required, increase the life span of the road and cut long-term maintenance costs.



FILTRATION

bidim® Green nonwoven geotextiles are highly porous and it allows water to pass through while preventing soil migration. When used in revetment and subsoil drainage projects, bidim® Green geotextiles will be more cost effective than natural filters.



DRAINAGE

The ingress of water into road pavements poses the most significant damage potential to any road; therefore rapid removal of this water is of the utmost importance. bidim® Green geotextile allows water to flow at rates which exceed most natural materials it is placed in contact with.

SECTOR SUITABILITY



DESIGNED FOR RAIL

Geofabrics offers a range of solutions for new track construction as well as renewal or maintenance of existing railway tracks which can deliver both construction savings and life-cycle optimisation.

RAIL FORMATION

bidim geotextiles are commonly used in the rail sector to separate the capping layer from the ballast layer, providing separation and filtration.

The rail industry typically demands bespoke bidim grades due to the nature of their aggregates and applied loads.

OUR CUSTOMERS NOW HAVE A GREEN, SUSTAINABLE AND AUSTRALIAN MADE GEOTEXTILE THAT PROVIDES DRAINAGE, FILTRATION AND SEPARATION ON LARGE SCALE INFRASTRUCTURE PROJECTS



SEPARATION

bidim® Green geotextile should be used in the construction of rail formation to separate the ballast and the capping layers. Using a layer of bidim® geotextile will help to protect the capping layer from the ballast above, helping to preserve track geometry, minimising maintenance cost.



FILTRATION

bidim® Green nonwoven geotextiles are highly porous and it allows water to pass through while preventing soil migration. When used in revetment and subsoil drainage projects, bidim® Green geotextiles will be more cost effective than natural filters.



DRAINAGE

bidim® Green geotextiles have a three-dimensional structure designed to improve drainage performance. Ideal for use in subsoil drainage systems, bidim® geotextiles will allow the dissipation of pore water pressure which can have a detrimental effect on rail formation.

SECTOR SUITABILITY



DESIGNED FOR WASTE & CONTAINMENT

Geofabrics has the most experienced geosynthetic waste and containment team in Australasia. We work with our clients to develop lining systems which are supported by years of research and are designed to exceed regulatory guidelines, protecting the environment through the control of hazardous leachates and liquors from waste and containment facilities.

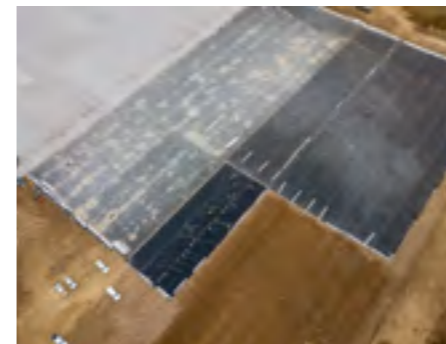
Our solutions include base lining, geomembrane protection, leachate drainage, cap lining and drainage plus gas collection.

LINER PROTECTION

Heavy duty geotextiles are used to prevent damage to impermeable liners designed to contain harmful liquors in landfill and mining applications; the design of the liner system needs to limit the chance of punctures during installation and reduce the risk of long term stress cracking of the geomembrane. Research has shown that bidim geotextiles can significantly reduce forces placed on the impermeable liners, protecting them in both the short and long term. Needle free bidim is commonly specified in liner protection applications to help prevent damage to the liner.

WE'RE TAKING PLASTIC BOTTLES OUT OF LANDFILL AND TURNING THEM INTO MATERIALS USED TO LINE THE NEXT CELL

SECTOR SUITABILITY



PROTECTION

Heavy grades of bidim[®] Green are used extensively as a protection layer to ensure the geomembrane does not puncture, predominantly from drainage aggregate. bidim[®] Green is an efficient geotextile utilising continuous filaments arranged in a non-woven fashion to create the most economical structure for protection. bidim[®] Green can be 30% lighter than staple fibres geotextiles and achieve the same performance, passing the cost savings onto the customer.



SEPARATION

Lighter grades of bidim[®] Green are used as a separation layer on landfill cells above the drainage aggregate and prior to waste placement. This is specifically to keep particles out of the drainage layer. bidim[®] Green is selected for its unique structure with high mechanical properties while also keeping hydraulic properties high. These two are inversely proportional, with bidim[®] Green you get the best of both worlds.



FILTRATION

Lighter grades of bidim[®] Green are also used as filtration layers over drainage nets to create drainage geocomposites. Similar to its wide adoption for separation functions, bidim[®] Green is very efficient in allowing high flow rates through while containing fine soil particles.





THE FIRST BIDIM GREEN ROLL

JOIN US ON OUR GREEN JOURNEY

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Smarter Infrastructure

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