

bidim[®]

Nonwoven Geotextiles

General Brochure



QUALITY - SUPPORT - EXPERTISE

 **GEOFABRICS[®]**

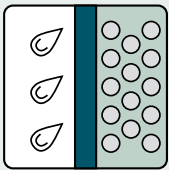
bidim® is a nonwoven geotextile designed to provide effective and economic solutions to a multitude of engineering applications. Introduced into Australia in 1978, **bidim**® geotextiles have a proven track record, which is unsurpassed.

bidim® nonwoven geotextile is manufactured to the highest international standards and has ISO 9001:2008 accreditation. As a result you can rely on the fact that, when you use **bidim**® geotextiles for your construction project, you receive the same high quality from the first to the last metre on the roll.

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

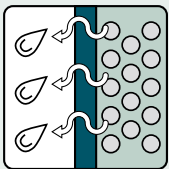
The knowledge gained over the past 35 years allows our technical staff to provide relevant support based on local conditions and sound experience.

FUNCTIONS



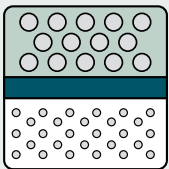
Filtration

To restrict the migration of fine soil particles from a soil mass while remaining permeable to water movement at a rate at least equivalent to the permeability of the retained soil.



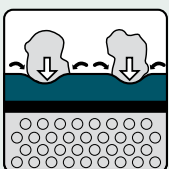
Drainage

To allow water to flow through or within the plane of the geotextile, allowing the dissipation of pore water pressure which can have a detrimental effect on engineering structures.



Separation

To separate and prevent two distinct soils or different materials from intermixing, thereby maintaining the performance of the individual materials.



Protection

To prevent damage to thin plastic liners used in landfills, by limiting deformation and puncturing potential.



APPLICATIONS

REVETMENTS

The loss of soil from behind a revetment will have an adverse effect on the stability and effectiveness of any revetment. Due to their ease of construction and low cost, geotextiles have replaced granular filters in revetment applications; with the nonwoven geotextile acting as a natural graded filter. **bidim**[®] geotextiles are designed to resist impact damage and to retain soil particles without significantly reducing the permeability requirements of the revetment.



ROADS

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. 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**[®] geotextiles allow water to flow at rates which exceed most natural materials it is placed in contact with.



EMBANKMENTS

High quality fill material can become contaminated when it is placed directly in contact with a soft or poor quality ground; the result being a loss of performance of the fill material. In order to limit the contamination and subsequent strength loss, geotextiles are used to separate the two distinct materials. Construction in this environment can place the geotextile separator under high stress with forces from rock placement and equipment loads needing to be transferred into the poor quality material. **bidim**[®] geotextiles are ideal for this application as it combines high elongation with high strength to provide unsurpassed toughness and survivability characteristics.



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.



ADVANTAGES OF bidim® NONWOVEN GEOTEXTILES

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: <ul style="list-style-type: none"> a. Reduces the need for quarried sand and rock, b. Reduces construction times over swampy ground. Tightly rolled wide rolls can result in significant transportation cost savings.
Design and Installation Support	bidim® nonwoven geotextiles are supported by technical assistance from our Geofabrics engineers. Installation equipment is also available to help ensure efficient and correct installation.

bidim® NONWOVEN GEOTEXTILES RESEARCH AND DEVELOPMENT

Geofabrics is committed to pursuing research and development of **bidim®** nonwoven geotextiles in testing and performance in various insitu environments. For technical information or a tour of our Albury manufacturing plant or the Geosynthetics Centre of Excellence please contact your closest Geofabrics office or email technicalsupport@geofabrics.com.au

SUPPORT DOCUMENTATION

Datasheets & Specifications	<ul style="list-style-type: none"> • bidim® MARV Technical Data Sheet • Geotextile Model Specification
Installation Guidelines	bidim® Installation Guidelines
OH&S	<ul style="list-style-type: none"> • bidim® Material Safety Data Sheets • bidim® Dispenser Frame Safe Usage Guidelines
Technical Notes	<ul style="list-style-type: none"> • UV Stability of Geotextiles • Chemical Resistance & Aging of Polyester Geotextiles • Sewing Geotextiles • Machine Direction vs. Cross Machine Direction Strength • ISO Certification Explained • MARV & Typical Values Explained
Quality Assurance	bidim® Nonwoven Geotextiles Manufacturers Quality Assurance & Quality Control Manual
Other	bidim® Nonwoven Geotextiles Project List

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