GEDTEXTILE FABRICS soil stabilisation \& green roofing.
These nonwoven fabrics are strong, flexible but permeable membranes which allow water to pass through but hold the particles in place. The soil does not become saturated, thereby improving the strength and stability of the ground.
The geotextile is manufactured through a thermal process without the use of glues or staples. The fabric is run through a number of super heavy presses to ensure the fibres are securely bonded. The makeup of the fabric is uniform throughout the roll, so no weak spots will be present in the layer.


A number of different grades and strengths of fabric are available from Wallbarn, depending on the exact nature of the project. Wallbarn supplies geotextile fabrics manufactured from virgin fibre polypropylene or recycled polyester. The material is supplied packed into tight rolls and we can supply material in a very large variety of roll sizes, from 1 metre wide up to 6 metres wide for very large-scale projects.


These super-jumbo rolls are designed for use for very large projects, such as road construction, reservoirs and landfills. Using very wide rolls reduces the number of joints between individual rolls. This cuts down on labour by having less individual rolls to stitch together, and also makes the wole fabic layer stronger by having less weak points at the joints.



## HIGH TENACITY VIRGIN FIBRE GEDTEXTILE

The prime material supplied by Wallbarn is a high tenacity polypropylene fabric (PPST). This material goes through a special process during manufacture to give it increased tensile strength and puncture resistance. It is available in different weights and has been fully tested to comply with specifications for a large range of uses such as road, rail and runway construction, landfills and reservoirs.


Its soft, cushioning properties mean it can be placed onto rough areas to prevent sharp objects from passing through into the system above but still allow the passage of water. This means sealing and waterproofing sheet membranes can be installed above them without the risk of ground settlement causing any damage above.


At much lower weights, the high tenacity polypropylene fabric has also been used as an effective protection layer for waterproofing membranes including single ply sheet membranes. The cushioning effect is seen as a major advantage. It has been used successfully as a separation layer in inverted waterproofing systems, protecting the insulation boards from damage caused by the ballast
Wallbarn can offer different grades of fabric to match up to the technical specifications required for each project. A second grade of virgin fibre polypropylene fabric is available called PPEXT is available with slightly lower mechanical properties to provide a
more cost effective solution.

They are often used as subterranean soil stabilisation membranes. Etither covering buried pipes or lining drains, they will ensure the passage of water without risk of land slippage, greatly improving the quality of the area. They can also be used on areas where new built-up ground is being created, such as artificial islands and reclaimed land, to prevent subsidence before the soil
is fully consolidated.

## RECYCLED PロLYESTER GEDTEXTILE - PECT

Designers and installers can choose a more sustainable option by using recycled polyester fabrics.
Although these materials have much lower tensile strength and mechanical properties of the virgin fibre materials, recycled polyester fabrics can be used effectively as separation and filtration layers. They are ideal for green roof applications since they are made from recycled fibres. Wallbarn uses the multi-coloured PECT recycled polyester fabrics within its own M-Tray® green roof system build-up.


All Wallbarn geotextile fabrics are manufactured under ISO 9001:2000 standards and comply with Directive 89/10/EEC 1988 (as amended by 93/68/EEC 1993). Fabrics can be coloured and engineered so that the UV resistance is extended beyond the standard 15 days should any fabric be exposed for prolonged periods.
ppext palyprapylene nanwaven virgin fibre fabric - secand strength geatextile fabric

peit recycled palyester - nanwoven geatextile fabric

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FIR MIRE INFIRMATIGN PLEASE CINTACT：
Wallbarn Ltd
 T：＋44（ロ）2ロ 89162222 • F：＋44（ロ）2ロ 89162223 E：sALEs＠WALLbARN．COM •W：www．wALLbARN．cロM

