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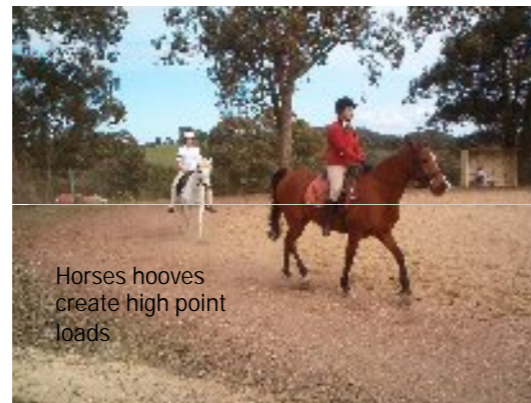
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Southern Geosynthetics offers a full range of erosion control products including SuperGro®, SiltStop® silt fences, Silt Curtains and now Silt Sausage™.



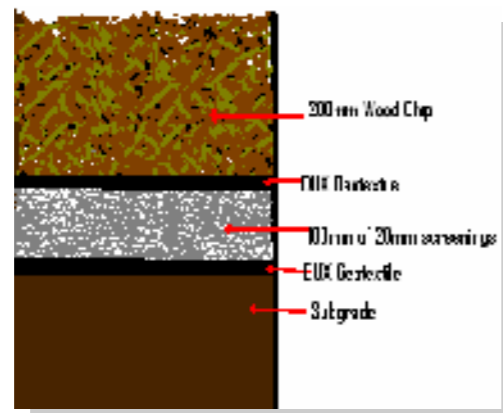
## Horse Menage Design



Horses hooves create high point loads.

Over the years contractor Neil Breerton has learnt a thing or two about building horse ménages. As with every good riding surface the key is the foundation. First a geotextile is laid at the subgrade level, followed by 100mm of 20mm screenings. A sub-surface AG drainage system is usually incorporated, but in this reconstruction project at Kangaroo Ground the sloping profile ensured good drainage. A second layer of geotextile overlays the aggregate creating an effective foundation and free-draining layer. The geotextile provides a separation layer and ensures the aggregate remains clean. A final 200mm layer of wood chips provides the riding surface. As the wood chips compact over time the surface is topped-up to maintain a good cushioning layer for the horses hooves.

Call Wayne at SGS on 0419 478 238 for full details of suitable **DUX** geotextiles.



Typical Design Cross-Section



Geotextile laid ready for spreading woodchips

Exhumed 15 year old Terra Firma, still in good condition

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# SGS NEWS

## VERSATILE WOVEN PROPEX 6086



Deep 600x600mm anchor trench for ProPex 6086  
Note non-woven test bed in background

Placing rock rip-rap on a 3H:1V earth embankment can place high tensile stresses on the filter geotextile. Tearing and failure of a 300gsm non-woven at a previous project had led consultants SKM to specify a high-strength **ProPex 6086** woven geotextile at the new Port Campbell waste water storage. To reduce shear stress the embankment was battered back at 2.5:1 and a deeper 600x600mm anchor trench was used to secure the geotextile at the crest. The fabric was also pinned at 2m centres.

**ProPex 6086** is an 80kN/m woven polypropylene geotextile with excellent hydraulic properties. The super high-strength is many times greater than that of a similar priced non-woven.

Some 5,000sqm of **ProPex 6086** was used at this project by contractors McClures Earthmovers.

Versatile ProPex 6086 is the ideal choice for a range of demanding geotechnical applications, from subgrade improvement for heavy-duty haul roads, to use as a filter geotextile beneath large marine beaching and even in large geotextile tubes for beach groynes.



## STORMWATER DETENTION WITH MATRIX

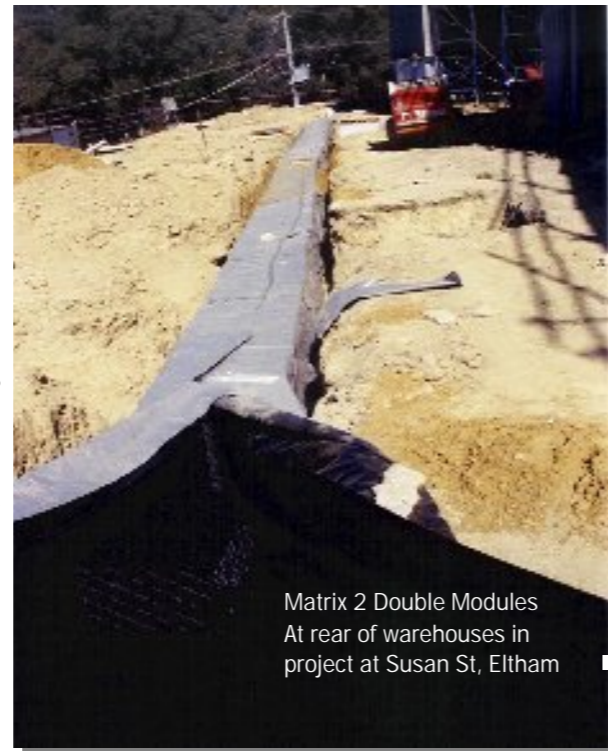
### The Challenge

Council demands for on-site stormwater detention is a growing challenge for designers

### The Solution

Atlantis **Matrix 2** Stormwater Modules provide a cost-effective, easy-to-construct solution. At around \$250/cm the **Matrix 2** system provides real savings over other methods such as over-sized concrete pipes. The light-weight modules are easy to construct and require no heavy lifting, yet are strong enough to support vehicular traffic.

At this commercial project at Bolton Street, Eltham **Matrix 2** double modules were laid in a channel to act as a stormwater conduit as well as providing detention. The modules were wrapped in DUX geotextile and also a plastic liner to ensure no leakage into the surrounding area.



Matrix 2 Double Modules  
At rear of warehouses in  
project at Susan St, Eltham

## UNDERGROUND RAINWATER TANK

More and more builders are discovering the beauty of using the **Matrix 2** underground rainwater tank system. At this featured project at Through Rd in Camberwell builder James Chong installed 7,500 L tanks in each of two new units. Total supply price was \$6,200 for two compared with other concrete system price of \$5,000 each, which proves how cost effective the **Matrix 2** system is. Together with a Davey above-ground pressure activated pump James installed a "Rainbank" switching device to allow water supply to switch back to mains if the tank empties. The pump and Rainbank cost around \$750.

The underground **Matrix 2** system is ideal for confined unit sites where space is at a premium. 10,000 L is a typical domestic size, however smaller tanks are used for smaller roof catchments. A 10,000 L installation will consist of 40 double modules, the footprint will be around 4x2.8m and the excavation will be around 1.5m deep, allowing a minimum 300mm soil cover. An extensive list of successfully completed projects, and design manuals are available. For full details contact Wayne on 0419 478 238



Easy assembly of Matrix 2 double modules



Installed 7,500L tank  
Note water level sensor

## DUX 270C AT HONEYSUCKLE CREEK

The decommissioning of the Honeysuckle Weir caused a vocal outcry from locals who resisted the loss of a local landmark. Contractor Armistead Earthmoving had the difficult job of working within a politically sensitive environment to carry out earthworks to reinstate the waterway, reshaping the creek and creating rock weirs. Some 8,000sqm of **DUX 250C** geotextile was used as a filter layer beneath the large rock beaching and also as a construction aid to assist access across swampy ground.



Placing rock beaching  
downstream of weir

## Beech Forest Road Slip

An innovative Vicroads design was used by contractor Morverk in recent civil works to repair major road slips in the Otways. EPS (styrene) foam blocks are used as light-weight fill combined with posts and a steel mesh face. The backfill was wrapped in DUX 270C geotextile to prevent migration of fines and contain backfill material. For-trac 55 geogrid was placed at 150mm layers throughout the final 600mm layer of CTCR to provide reinforcement around guard rail.



DUX 270C geotextile ready for EPS