

Fortrac 3D



Fortrac 3D provides effective interaction with soil

Fortrac 3D® is a further development of the well-known Fortrac® geogrid range and is used as a slope protection material. Fortrac 3D® is a flexible, three-dimensional reinforcement grid made from high-tenacity low-creep polyester with a special polymer coating for protection against UV degradation. On steep slopes Fortrac 3D® provides soil reinforcement and ensures soil veneer stability. Also, due to its distinctive three-dimensional structure, Fortrac 3D® provides surface soil erosion protection.

Fortrac 3D® finds further application in river bank protection, water retention schemes, canal banks and hydro-seeding on steep slopes. Fortrac 3D® is available in a range of strengths from 30 to 120kN/m, unmatched by any other erosion control mat.



Installing Fortrac 3D® at Landfil de Curgies, France

Stop Press !

Visit our stand at CivEnEx at Sydney Lo-Gov in Brisbane and the Save Water Expo in Melbourne.



We're on the web!
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Canal3® In Action

CANAL3® is finding wide usage across a range of applications, including lining of dam spillways, lining of underground Matrix modular box rainwater tanks, as well as the original intended use for canal lining! The extremely tough nature of CANAL3® makes it ideal for other applications such as for use as a tough tree-root barrier and as a waterproof membrane around building basements.

CANAL3® may be considered for use as an alternative to GCL's (Geosynthetic Clay Liner). CANAL3® may be placed fully exposed, unlike GCL's which require a minimum 300mm aggregate cover layer. This results in significant aggregate and labour cost savings. Roll overlaps are glued with a special Loctite glue, resulting in a tough, reliable seal, compared with GCL's joints which are only pasted with bentonite and vulnerable to movement. Call us for a product sample and design manual.



Placing CANAL3® in dam spillway



Installing CANAL3® with modular underground water storage

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New Flushable Modules



New Rainsmart® flushable module

Modular plastic boxes are being increasingly used for stormwater detention. These systems are used with a pre-filter pit to capture litter and silt. However a concern of designers has been the possible build-up of litter over time and the lack of ability to “flush-out” the system. The new Rainsmart® range incorporates moulded 165mm diameter cutouts allowing the entire system to be easily flushed-out. For full design details contact Wayne of 0419 478 238.

Pool In-Fill

What to do with an unwanted pool? Why spend good money filling in the space? Instead use it to form an underground water tank. Any existing in-ground pool can simply be filled with Matrix® modules to form a large storage volume. All the hard work has already been done - the hole is dug and the waterproof shell is already available. At this project in Melbourne's Caulfield owner Gary Elliot used a mixture of single, double and triple modules to best fit the curved pool profile to form a 47,000 litre tank. Rainwater is captured off the house roof and, with the addition of a small above-ground pump, the garden has all the water it needs.



Mrs Elliot “supervising works”

New Style Fornit 30®

Fornit 30® biaxial polypropylene geogrid is a proven solution for pavement reinforcement over very soft soils (ie CBR 1-2%).

After extensive testing manufacturer Huesker has now improved Fornit® by decreasing the mesh aperture size from 40mm to 15mm to better match common road aggregate sizes (20-40mm). This smaller mesh size “locks-in” with the aggregate and ensures separation as well as effective reinforcement, unlike other competitors grids which have larger mesh size and do not provide the important separation function.



Effective separation using Fornit



Oops! Should have stayed on the Fornit!

Tank Under Building Slab

A relatively new application for the Matrix® module system is under building slabs. Builder J.F.Van't Riet & Sons installed a 125,000 Litre tank under the slab of an extension to the Luther Aged Care home at The Basin, in Melbourne's east.

The Matrix® modules acted as formwork for the concrete footings and slab. Modules replace other formwork such as EPS foam and provide a “free” rainwater tank. As Fred Van't Riet said, “all new buildings should be built this way”.



Preparing for the concrete pour around the Matrix® double modules.