

MACCNEWS

Issue 13

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Website Changes

Increased demand for easy access for up to date product information has resulted in a higher level of use of our website. To improve both access to information and content, Maccaferri NZ has introduced improvements to our website - www.maccaferri.co.nz.

The key changes made and further enhancements planned in 2008 are:

- Improvement in navigation with the introduction of a search function as well as a product drop down box to allow users quick access to product information.
- Introduction of a more structured approach to offering **Solutions** across our full product range. This allows engineers, architects and end users to better understand how the products combine to solve engineering problems.

SOLUTION → **SYSTEMS** → **PRODUCTS**

Solutions relate to the various area of our business that we actively participate in e.g. Retaining Walls. **Systems** are a combination of products that together provide a solution to the engineer e.g. Segmental Retaining Walls. **Products** are the individual components that form a system e.g. Tensar geogrids.

- The ability to download current literature will also be incorporated into the web site, thus providing clients the very latest brochures, specifications and installation guidelines. Within the “**Systems**” section installation instructions and Case Histories will be introduced. The “**Products**” pages will include Technical Data sheets.
- We will be updating our gallery of photos to offer clients a wider choice of ideas for their projects.

Our resellers have also been catered for with their own page of information relating to the Maccaferri products they offer into the New Zealand market.

For further information on the changes, access on changes or to upgrade your hardcopy literature, please contact Felicity Bartlett; fbartlett@maccaferri.co.nz.

New Product - Miragrid GX

Maccaferri NZ is pleased to announce the introduction of the new range of **Miragrid GX** polyester geogrids from TenCate Geosynthetics Asia, an ISO Quality Certified manufacturer and part of the 300 year old TenCate Group, the largest geosynthetic supplier in the world.



Miragrid GX geogrids are manufactured from high tenacity polyester yarns and are polymer coated. Extensive research and testing has been undertaken since 2002 to ensure that **Miragrid GX** satisfies the technical requirements demanded by engineers internationally. **Miragrid GX** incorporates some of the leading fibre, polymer coating technology developed within the TenCate Group for the aerospace and other industries that apply leading fibre technology. This has resulted in a product that uses enhanced high strength polyester yarns having very high molecular weights and low carboxyl end group number which together provide lower creep and higher durability performance than the older generation of polyester geogrids in the market.

The introduction of **Miragrid GX** into the walls and slope market complements the already established **Polyfelt WX**, high strength woven polyester geotextiles used in basal reinforcement applications. Both products are tested at an Accredited Geosynthetic Testing Laboratory for manufacturing quality control and assurance. The testing laboratory has ISO/IEC 17025 accreditation as well as being independently audited to achieve the GAI-LAP, USA accreditation. This ensures that product supplied to site meets the highest international standards.

A full set of datasheets, technical notes and samples are available on request from Maccaferri.

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Papamoa Beach - Erosion Protection for Dune Rehabilitation

Erosion of sand dunes where streams exit at the coast is a continuing problem. In the natural dune environment it is not acceptable to introduce "hard" structures such as rock armour to control erosion. The emphasis is to retain the natural amenity value and public access and to utilise natural dune vegetation techniques to restore eroded dune systems rather than introduce hard structures. Designers have looked towards innovations in geosynthetic technologies to provide softer solutions to beach erosion protection.

Following the success of the sand filled tubes at the Waihi Beach Surf Life Saving Club site, the Environment Bay of Plenty Coast Care group has adopted a development of this system to help arrest dune erosion at other sites. The recently installed structure at Harrison's Cut, Papamoa just south of Mt Maunganui utilised the specialist high abrasion and vandal resistant composite material **ELCOROCK** containers filled with sand to train the stream outfall. The structure is designed to control the stream flow direction and stop its tendency to flow in an easterly direction where severe erosion and loss of the dune system has occurred.

While the stream outfall training is important, it is only part of the dune rehabilitation programme implemented by the Environment Bay of Plenty Coast Care group. The **ELCOROCK** structure facilitates the retention and accretion of sand which is then stabilised with planting of Spinnefex and Pingao grasses. These native grasses further promote the natural establishment of the dunes by their ability to trap and retain sand.

The stream training structure is constructed of 0.75m³ **ELCOROCK** containers with filled dimensions of approximately 1.6mx1.2mx0.4m, placed in layers to a height of 1.2m. A modified container incorporating a geotextile wing provides for scour protection along the stream bed. Construction involved filling the containers with on site sand using a filling frame and small excavator, then sewing closed with a special portable sewing machine. The containers were then placed using a 20 tonne excavator with a modified bucket to lift and place the containers.

Once the **ELCOROCK** structure was completed, sand was replaced behind and immediately planted by Coast Care and volunteers. As the planting establishes the dunes will be stabilised thus providing the erosion protection to the back dune reserve. In the short time since installation, accretion of sand has already occurred. The **ELCOROCK** structure has provided a safe and useable amenity for public access.



Erosion of dunes prior to construction



ELCOROCK filled for sewing closure and placement



Completed with dune planting and fencing

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| PROJECT Dune Rehabilitation |
| LOCATION Papamoa |
| CLIENT Environment Bay of Plenty |
| CONTRACTOR Peter Rae Coastal Maintenance |
| DATE Installed August 2005 |
| PRODUCT ELCOROCK |



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Building Corner: D.O.C Café - Paver Support System for Raised Courtyard

The Department of Conservation building at Head Office in Wellington has been upgraded. As described in the Trends Commercial Design Magazine, Vol 23, no 4 by the Minister of Conservation - Chris Carter, "the Department of Conservation is the central government department charged with protecting the country's natural environment and historic heritage, it was only fitting that the Head Office reflected this." Also, as taken from the magazine, "The building was designed to optimise site potential, minimise energy consumption, protect and conserve water, use environmentally preferable products, enhance indoor environmental quality and optimise operational and maintenance practises." This was encompassed in the redevelopment/upgrade of the current building, including a new café and courtyard area on the 4th floor. The café was designed to encourage staff collaboration and co-operation by acting as an informal meeting area, catering to different working styles.

The designers were faced with achieving good indoor/outdoor pedestrian and aesthetic flow to the café courtyard across a variable entrance height (ranging 110-220mm) while ensuring that the building membrane protection was not compromised. Architects, Architecture+ selected **VersiJack**, a high strength and variable height adjustment support system for pavers and decking beams. The elevated pavers save on imported hard fill, weight and handling costs and provide a continuous cavity that allows retro fitting and easy maintenance of any services under the pavers or deck and the opportunity to inspect the liner system if needed.

VersiJack has a height range of up to 1050mm and has an inbuilt slope compensator of 0 to 5 degrees at 1 degree increments. **VersiJack** offers architects and developers greater design flexibility and has a wide range of applications in the landscape, building and construction industries. **VersiJacks** are suitable for roof terraces, walkways, platforms through to pool features including translucent floors or deck areas.



VersiJack on waterproofing membrane



VersiJacks supporting pavers (underside)

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|--|
| PROJECT |
| DOC Building Refurbishment |
| LOCATION |
| Wellington |
| ARCHITECT |
| Architecture+ |
| CONTRACTOR |
| Sunshine Paving Ltd |
| DATE |
| December 2006 |
| PRODUCT |
| VERSIJACK Telescopic Pedestal/ Paver Supports |



Finished café in use



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New Staff Introductions



Kirsty Taiaroa

Kirsty is part of the Customer Services team and supports clients in the Auckland area. She has had a number of years working in customer services roles within a variety of industries. Kirsty has done her big OE and still enjoys travel.

If you are pricing any jobs or need product in the Auckland area, then Kirsty will be able to assist you.



Nick Simmons

Nick joined the Maccaferri team to manage our new building products division. This new and exciting area (for us) covers our drainage and stormwater management systems, acoustic and venting systems and paver and decking support systems.

Nick comes to us with 30+ practical years from within the building industry. To aid this we have a new section on our website; www.maccaferri.co.nz. Please feel free to contact Nick direct on 021 732 178.



Felicity Bartlett

Felicity joined Maccaferri last year and has taken on the role of Marketing. She has had a number of years working in sales and marketing in different technical and financial industries. Felicity enjoys time with her family and cooking different exotic foods.

If you require any product information, literature, catalogues or marketing related material please email: fbartlett@maccaferri.co.nz.

A Tribute to Tony Lingley



Maccaferri staff are very sad to advise of the passing of Tony Lingley who died in Christchurch on 3 February 2008 after a cardio-respiratory illness. Tony was the company's first employee after being taken on by Managing Director - Chris Brockliss, joining almost 20 years ago. Tony was well known and respected across the industry where he was affectionately known as "Mr Gabion", especially in the South Island. Tony facilitated world firsts, for Maccaferri with the first Terramesh gabion wall constructed North of Kaikoura and the use of Terramesh reinforcement for concrete tilt-up-slab walls near Ashburton. Tony retired some six years ago, but kept in touch, including some part time assignments with Maccaferri. Tony is survived by his wife and three adult children and grandchildren.

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For further information about these projects or any of the products listed Freephone 0800 60 60 20



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