

Sustainable Landscape & Building Products



Solutions & Applications

Sub-Surface Drainage Paver & Decking Support Green Roofs Turf & Soil Stabilisation Underground Stormwater Tanks Vertical Green Walls



VersiCell[®] & VersiFlex[®]

Sub-Soil Drainage Modules

Efficient lightweight, high strength interlocking plastic drainage modules, that capture and transport high water volumes and also serve to protect waterproofing membranes. Modules interlock to form large panels or long units that may be positioned both vertically and horizontally.

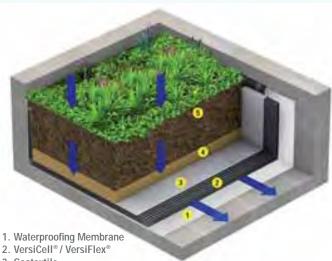
Features & Benefits

High water capture (70% surface void) High strength (<100 t/m²) High water transport (16.5 l.m.s) Lightweight (<2.9 kg/m²) Interlock for stability Waterproof membrane protection Easy installation

Applications

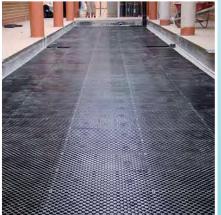
Landscaped decks Intensive green roofs Planter boxes Retaining and basement walls Paved areas & roadways Sports fields





- 3. Geotextile
- 4. Coarse Sand
- 5. Growing Media

Planter Box Drainage



Constitutional Hill Retirement Village, Sydney



VERSICELL[®] & VERSIFLEX[®]- SUB-SOIL DRAINAGE MODULES

Landscape Deck Drainage



Croydon Health Centre, Sydney

Green Roof Garden Drainage



Housing Development Board, Singapore

Basement & Retaining Wall Drainage





Retaining Wall, Singapore



Minter Ellison Building, ACT

VersiDrain[®] 25P

Water Storage & Drainage Sheet

A lightweight, high strength perforated sheet that functions to both store and drain water in extensive roof gardens and planter boxes. Water and soluble nutrients stored in an array of mini reservoirs are returned to soil media, via capillary action, for plant uptake, when required. Perforations in the channels allow excess water to flow to outlets.

Features & Benefits

High storage capacity (6.1 l/m²) High strength Effective drainage (1.5 l.m.s) Lightweight (0.9 kg/m²) Facilitates capillary irrigation Reduced irrigation frequency Enhanced plant vigour Reduced stormwater run-off

Applications

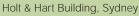
Extensive green roofs Landscape roof decks Planter boxes Podiums





Extensive Green Roof







Amenities block Pasir Ris, Singapore

VersiDrain[®] 8 Mesh

Dimpled Plastic Drainage Sheet

Lightweight, translucent, high strength drainage sheet with an integrated mesh that facilitates adhesion of shotcrete and plaster on rock surfaces and internal basement walls.

Features & Benefits

Contains integrated mesh Allows shotcrete & plaster adhesion Load bearing strength (<15 t/m²) Easy to install lightweight rolls Drainage capacity (5.0 l.m.s) Vapour barrier & drainage void Relieves hydrostatic pressure

Applications

Internal basement walls Rock surfaces Tunnels & landfills



VersiDrain[®] 8 Geo

Dimpled Plastic Drainage Sheet

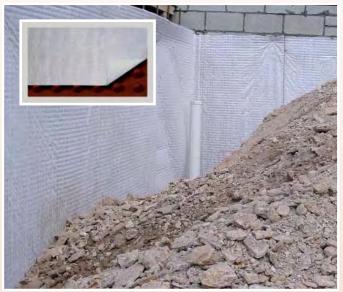
Lightweight, medium strength drainage sheet with an adhered geotextile that provides rapid drainage of foundation walls and other underground structures.

Features & Benefits

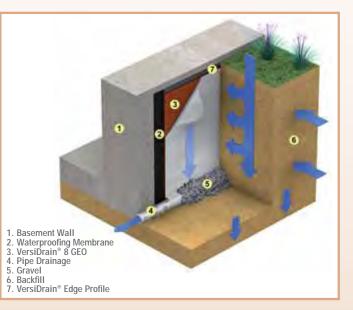
Easy to install lightweight rolls Adhered geotextile Drainage capacity (4.6 l.m.s) Load bearing strength (<25 t/m²) Waterproofing membrane protection

Applications

Retaining & basement walls Planter boxes Landscaped decks



Panorama Village Pymble, Sydney





Resmed Research Centre, Sydney



Townhouse Estate Haberfield, Sydney

VersiDrain[®] 10 Geo

Studded Plastic Drainage Sheet

Lightweight, high strength drainage sheet with an adhered geotextile that provides rapid drainage of foundation walls and other underground structures.

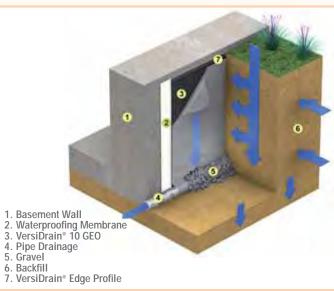
Features & Benefits

Lightweight and easy to install rolls Adhered geotextile Drainage capacity (4.8 l.m.s) Load bearing strength (<40 t/m²) Waterproofing membrane protection

Applications

Retaining & basement walls Planter boxes Landscaped decks









Quad Building Homebush, Sydney

VersiDrain[®] 6P

Under-Screed Drainage Mat

A lightweight, plastic interlocking drainage sheet positioned between the structural slab and sand or mortar screeds. Moisture and salts in the screed are prevented from migrating upward, via capillary action, to the surface to form efflorescence and algae on tiles and pavers.

Features & Benefits

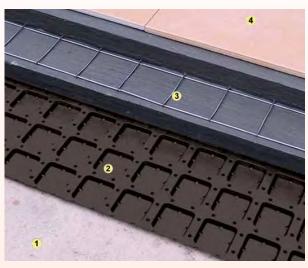
Efficient drainage under screeds Minimises efflorescence & algae Reduces surface cracking High strength (<80 t/m²) Protects waterproofing membrane

Applications

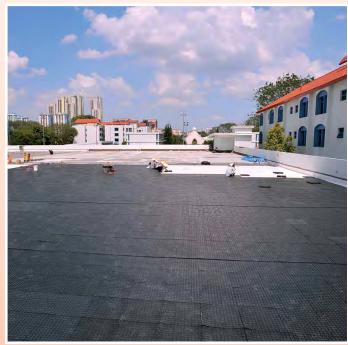
Balconies, terraces & decks Swimming pool surrounds Change & wash rooms



Nanyang Technological University, Singapore



- . Floor Slab . VersiDrain® 6P . Cement and Sand Screed with Reinforcing Mesh . Floor Tile





Marina Bay Sands Integrated Resort, Singapore

CelluTank[®] & VersiTank[®]

Underground Stormwater Tanks

Lightweight modular plastic sub-surface stormwater infiltration or re-use storage tanks. Modules are interlocked to produce maximum stability under high weight bearing load situations.

Features & Benefits

Sub-surface infiltration Underground water storage Ultra high strength (12-40 t/m²) Cater for all volume requirements

Applications

Domestic housing Commercial units Industrial developments



Bailik College, Melbourne



Holroyd Apartments, Sydney



Private residence, Melbourne



Residential development Geraldon, WA



Kilbreda College, Victoria



City of Mt Hawthorn Perth, WA

VersiPave[®] GP

Paver Support

High strength, lightweight paver support with integrated adjustable chocks that eliminate the need to use bedding sand, facilitate efficient drainage of surface water, eliminate possible efflorescence and algae and improve thermal insulation.

Features & Benefits

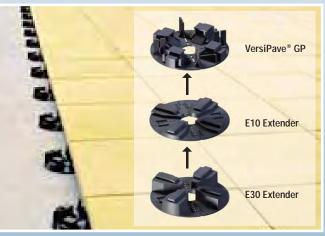
Height range 24-35 mm & extend to 150 mm using 10 and 30 mm extenders No sand beds or screeds Reduced paving installation costs Efficient drainage of surface water Access to waterproofing membranes No efflorescence and algae Improved thermal and acoustic insulation Services concealed under pavers

Applications

Balconies, terraces & decks Swimming pool surrounds Change & wash rooms



Beaumonde Apartments, Sydney







Greenslopes Hospital Brisbane, QLD

VERSIJACK[®] 75 - PAVER & BEAM SUPPORT

VersiJack® 75

Paver & Beam Support

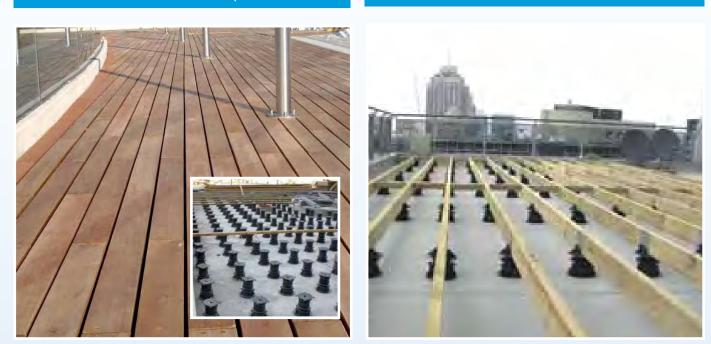
High strength, heavy duty telescopic adjustable paver, beam and decking support that eliminates the need to use mortar or sand beds, brick or metal piers. Units incorporate an integrated 0-5% slope corrector and extend to 1000 mm using proprietary extenders.

Features & Benefits

Height adjustment 75-1000 mm Support <3.0 tonnes 0-5% slope adjustment head Eliminate bedding sand and screeds Rapid drainage of surface water Access to waterproofing membranes No efflorescence and algae Improved insulation Services concealed under pavers Lower cost than brick & metal piers

Applications

Plaza decks Balconies Swimming pool surrounds Verandahs & courtyards



Science Technology Park, Hong Kong





"Waterplay", Brisbane



Alexandra Arch, Singapore

Canon Headquarters, Sydney

VersiJack[®] LH

Paver & Bearer Support

High strength, low height stackable paver, beam and decking support that eliminates the need to use bedding sand, brick or metal piers. Units incorporate an integrated 0-5% slope corrector.

Features & Benefits

Height adjustment 22-75 mm Support < 3.0 tonnes 0-5% slope adjustment head Eliminate bedding sand and screeds Rapid drainage of surface water Access to waterproofing membranes No efflorescence and algae Improved insulation Services concealed under pavers Lower cost than brick & metal piers

Applications

Plaza decks Balconies Swimming pool surrounds Verandahs & courtyards









SPIRAPAVE[®] - PAVER & BEARER SUPPORT

SpiraPave® Paver & Bearer Support

A new generation pedestal for paver and decking support consisting of separate components paired to create pedestals of different heights, each capable of stepping up or down for fine height adjustments. A minimum height of 12 mm makes it ideal for installations where conventional height-adjustable pedestals are generally too high to be used.

Features & Benefits

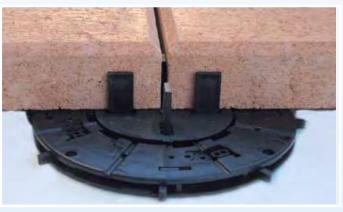
Minimum height of 12 mm Uninterrupted progressive height increase Easy precise 1 mm height adjustments Easy-to-install, cost effective and lightweight Incorporates a 0-5% Slope Corrector and 45-80 mm width Bearer Holder High compressive strength Made from 100% re-cycled plastics Supports Green Building certification

Applications

Balconies, terraces & decks Swimming pool surrounds Verandahs & courtyards Changing and wash rooms









Elmich Green Wall

A system incorporating robust modules assembled using high strength structural panels and a geotextile liner filled with lightweight growth media. The modules are pre-planted in a nursery environment to allow plant establishment and then installed onto walls using proprietary support frames and anchoring pilasters.

Features & Benefits

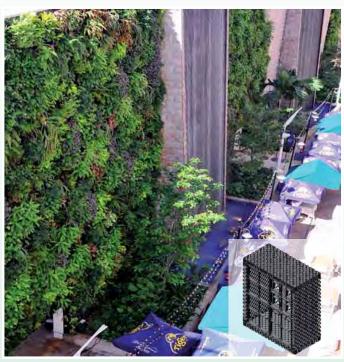
High strength Easy to assemble and install Facilitates active plant growth Modules easily replaced Enhanced site and building value Heat insulation of building structures Improved sound insulation Enhanced air quality

Applications

Building facades Screen walls Walkways Feature walls



"Houses of the Future" Exhibition, Sydney



Hotel Michael Resort World Sentosa, Singapore



Orchard Central Mall, Singapore



Moonee Ponds Recycling Station, Melbourne



Curzon Hall, Sydney



Zenith Building. Sydney



Commercial Hotel Parramatta, NSW



Custom House, Singapore

Elmich Green Roof System

A system that incorporates a wide range of proprietary products to suit virtually any design requirement for both intensive and extensive roof garden applications. Drainage cells, water retention and drainage trays, geotextile and cellular confinement cells in addition to paver and decking support products all may be incorporated to create functional green roof garden areas.

Features & Benefits

Efficient water retention and drainage Lightweight and easy to install Facilitate active plant growth Waterproof membrane protection Reduced irrigation frequency Reduced weight on building structure Improved sound insulation

Applications

Roof gardens Podiums and decks Courtyards Planter boxes



Holt & Hart Building, Sydney



Holland Drive Public Housing Car Park, Singapore



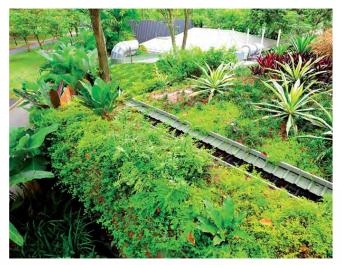
Westbury Apartments, Sydney



131 Queen Street, Melbourne



Singapore Flyer, Singapore



Aramsa Spa, Singapore



Universal Studios, Singapore



TurfPave® XD

Turf Stabilisation

Lightweight, durable plastic interlocking grid that stabilises turf and decorative gravel and provides an environmentally practical alternative to impermeable surfaces. TurfPave is positioned under the grass surface and minimises grass and root compaction.

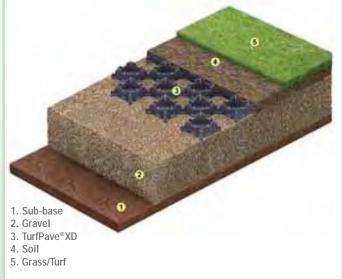
Features & Benefits

Installed under turf surface Distributes vehicle weight Supports heavy vehicles (<2,000 t/m²) Allows water infiltration Conforms to uneven surfaces Lightweight & easy to install Promotes vigorous root development

Applications

Overflow car parking Homeowner driveways Street shoulder parking Pedestrian walk areas









Sydney Academy of Sports, Narrabeen

VersiWeb[®] Cellular Confinement Cells

High strength soil and growth media confinement cells that reduce erosion and restrict soil movement on sloped areas such as green roofs, free standing walls, embankments and barriers.

Features & Benefits

Minimizes soil erosion Retention of infill Supports heavy vehicle weights Improved drainage Reduced hydrostastic pressure High seam strength (>560 N) Cell heights from 50-200 mm

Applications

Slope and channel protection Soil retention Embankment stabilisation Green roof growth media stabilisation



Amenities block Pasir Ris, Singapore





Novena Church, Singapore



Mass Rapid Transit (MRT) Train Depot, Singapore

Elmich an Australian company is a leading manufacturer of Landscape Engineering & Construction products



Elmich offers customised "total solutions"

We provide advice on the most cost-effective solutions, specifications and technical installation details. Our staff, having technical expertise and in-depth knowledge of local environmental conditions and work practices, ensures that unsurpassed service is provided to satisfy clients' most rigorous needs.

Elmich has supplied a wide range of products on numerous international residential, commercial, infrastructural and industrial projects.

Major projects in Australia include:

The Sydney Olympic Village, Melbourne Cricket Ground, The Sydney Conservatorium of Music, Green Slopes Hospital in Brisbane, Burswood Casino in Perth and the Chatswood to Epping Rail Link.



Note: The information provided in this brochure is based on current knowledge and experience and does not infer any legally binding assurance or warranty, expressed or implied. Intending purchasaers should verify whether any changes to specifications or applications or otherwise have been made since this literature was issued. The products in this brochure are manufactured using specified recycled plastics under detailed quality control standards and procedures. Factors including source of raw material and manufacturing processes may impact slightly on the strength of the products.

TEL: 1300 ELMICH www.elmich.com.au