PRODUCT SELECTION GUIDE 2026/27

GEOFABRICS®
Sustainable solutions

ROADS

SLOPES & WALLS

WATER

COASTAL

CIVIL & LANDSCAPING

SPORTS & RECREATION

BUILDING

PRIMARY INDUSTRIES

TUNNELS

RENEWABLE ENERGY

PORTS & AVIATION

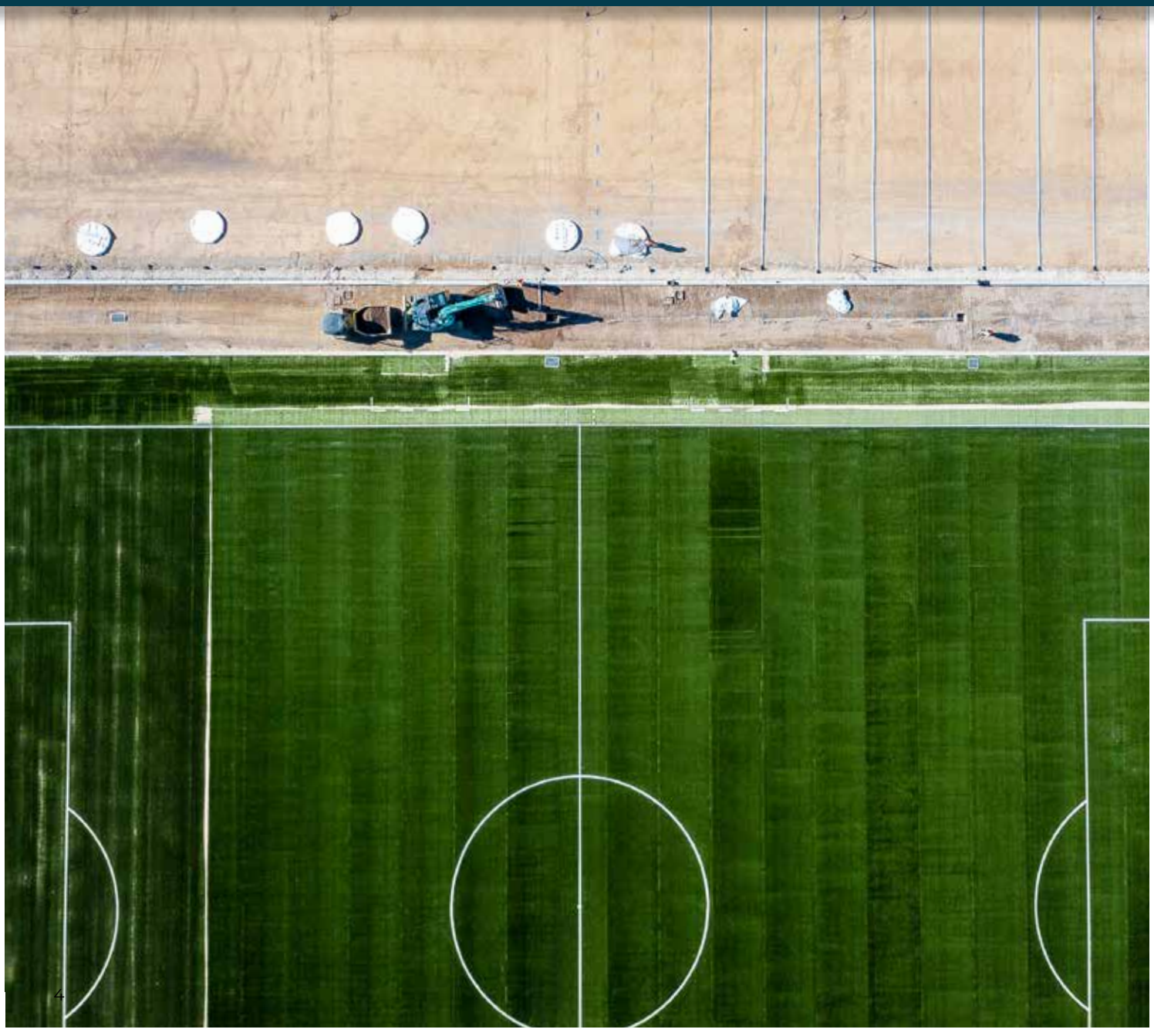
SPORTS & RECREATION

CIVIL & LANDSCAPING

BUILDING

PRIMARY INDUSTRIES

THE LEADING SPECIALIST OF GEOTEXTILES FOR INFRASTRUCTURE IN NEW ZEALAND



We work to protect, contain and secure the physical environment using smart geotextile and geosynthetic products.

SUSTAINABILITY

Geofabrics pride itself on providing unrivalled, local service to our customers. We can recommend the best geosynthetic product to achieve the objectives of your project and ensure it's available when you need it.

Over 35 years of experience allows our technical staff to provide practical support, based on local conditions in New Zealand.

With a view to the future, we are committed to improving the sustainability of our business by reducing waste to landfill, lowering our carbon emissions and investing in our people.

Recycled material

By incorporating recycled material into a number of our products including Bidim® Green, Tracktex® Green, Sealmac® Green and Megaflo® Green, Geofabrics is helping to reduce waste to landfill.

Over the past 18 months, we have utilised recycled material from almost 70 million plastic bottles.

Reducing energy intensive material use

When used in large projects, geotextiles have the additional benefit of reducing energy use and carbon emissions as they are lighter and less energy intensive to produce than traditional construction materials such as steel and cement. The use of geosynthetics can also reduce the need to transport and use high quantities of quarried materials and aggregates while achieving the same result.

Reducing erosion

Erosion and sediment run-off impacts both the land itself and the surrounding waterways. Erosion can be reduced by establishing vegetation using a range of geosynthetic and biodegradable solutions such as Jute Mat and Grassroots. Geoweb can also be used where there is insufficient soil.

Silt fencing and curtains, coir logs and nets can be used to prevent sediment run off to protect our waterways. Remediation of environmental pollution is both difficult and expensive and the impact on plant and animal life can be catastrophic.

Geotextiles can also be used to prevent erosion to coastal shorelines caused by extreme weather events such as heatwaves, cyclones and floods.

To increase the sequestration of blue carbon and lower atmospheric CO_2 levels we are also helping to protect and re-generate mangroves, marshlands and seagrasses.

The UN Sustainable Development Goals

The UN Sustainable Development Goals (SDGs) were developed as a plan of action to build a global partnership for sustainable development to improve human lives and protect the environment. We are guided by the UN SDGs and are making changes where we can have the most impact.

When used in infrastructure projects and in the protection of the environment, geosynthetics can help communities and business partners achieve a number of SDGs.

Expert guidance with
local support

Reduced
aggregate & quarried materials

Sustainable infrastructure with
lower CO_2

GEOTEXTILES

MADE WITH RECYCLED MATERIAL FOR SMARTER GROUND SOLUTIONS

BIDIM GREEN NON-WOVEN GEOTEXTILE

Bidim® Green is a premium non-woven geotextile made with a combination of recycled PET and virgin plastic material, designed to provide an effective and economic solution for a multitude of applications. Bidim Green offers excellent filtration, separation, protection and drainage properties.

WHY CHOOSE BIDIM GREEN?

- Excellent performance in filtration, separation, drainage and protection applications
- Reduced need for quarried fill materials and shorter construction times
- A strong three-dimensional structure offering superior dimensional stability
- Verified Environmental Product Declaration (EPD) supports more sustainable infrastructure outcomes

APPLICATIONS

- Separation over soft ground in driveway construction and gravel paths
- Lining of subsoil drain trenches
- Filtration under roads and rails to assist with rapid removal of water
- Prevention of soil migration into drainage systems
- Protection of critical liquid and gas barrier materials in lining and capping

FUNCTIONS

DRAINAGE FILTRATION SEPARATION PROTECTION

BIDIM GREEN RANGE

Grade	Class	Roll Width	Roll Length
A14	**A**	2 / 4 / 6m	50 / 250m
A19	**B**	2 / 4 / 6 m	50 / 250m
A29	**C**	2 / 4 / 6m	50 / 250m
A39	**D**	6m	125m

Grade	Class	Roll Width	Roll Length
A44	**D**	6m	100m
A49	**E**	6m	75m
A64	**E**	6m	75m

EPD Hub

SCAN FOR MORE DETAILS

PREVENTS MOISTURE IN ROAD PAVEMENT LAYERS

SEALMAC GREEN PAVING FABRIC GEOTEXTILE

Sealmac® Green paving fabric geotextile is made from continuous polyester fibre and is widely used in maintaining and rehabilitating road surfaces. It provides a cost-effective method for waterproofing and stress alleviation, mitigating the effects of reflective cracking in pavements and extending service life.

WHY CHOOSE SEALMAC GREEN?

- Prevents premature pavement failure due to high moisture conditions and fatigued surfacing
- Can be laid with a bond coat over new base course or existing fatigued and cracked asphalt surfacing for maintenance applications
- Strengthens and waterproofs the interlayer of existing surfaces
- Increases the surface service life by over 7 years, improving life cycle costs

APPLICATIONS

- Asphalt sealing and reinforcement for roads
- Waterproofing and reinforcing of chip seal resurfacing

FUNCTIONS

BARRIER

STRESS RELIEF

SEALMAC GREEN RANGE

Code	Description	Width	Length	Weight
PF1400150	Sealmac PF1	4m	150m	84kg

Uses recycled material

Extends surface life by **7+ years**

SCAN FOR MORE DETAILS

SUPERIOR FILTRATION & PROTECTION FOR HARSH COASTAL CONDITIONS

TEXCEL R NON-WOVEN STAPLE FIBRE GEOTEXTILE

Texcel R® non-woven staple fibre geotextile is made in Australia from polyester fibres with inbuilt flexibility to provide superior protection against harsh coastal conditions. It has high abrasion and UV resistance properties, providing superior filtration for coastal applications.

WHY CHOOSE TEXCEL R?

- Specifically designed for use in dynamic coastal environments
- Highly robust with large rock drop testing to support use

APPLICATIONS

- Coastlines protection and remediation

FUNCTIONS

FILTRATION

SEPARATION

PROTECTION

EROSION & SEDIMENT CONTROL

TEXCEL R RANGE

Code	Description	Width	Length	m^2	Weight
600R600050TEX	Texcel 600R	6m	50m	300	150kg
900R600050TEX	Texcel 900R	6m	50m	300	200kg
1200R600050TEX	Texcel 1200R	6m	50m	300	370kg

Superior filtration for coastal application

High abrasion **& UV resistance** properties

SCAN FOR MORE DETAILS

MECHANICAL STABILISATION AND MOISTURE MANAGEMENT

MIRAFI H2RX MULTIFUNCTIONAL WOVEN GEOTEXTILE

MIRAFI® H2Rx is a multifunctional woven geotextile made from high tenacity polypropylene yarns. It offers superior separation, mechanical stabilisation and moisture management for road pavements and railway structures.

WHY CHOOSE MIRAFI H2RX?

- Separates and prevents the intermixing of subgrade soil and structural gravel layers
- Drains moisture to prevent cracks, potholes and frost boils
- Equalises moisture content in expansive clay subgrades, preventing differential heaving and shrinkage that cause pavement stress
- Strengthens road pavement for longer design life

APPLICATIONS

- Ground and pavement stabilisation

FUNCTIONS

DRAINAGE FILTRATION REINFORCEMENT SEPARATION STABILISATION

Superior
moisture management

MIRAFI H2RX RANGE

Description	Width	Length	m²	Weight
MIRAFI H2Rx	4.5m	100m	450	195kg

SCAN FOR MORE DETAILS

HIGH STRENGTH REINFORCEMENT FOR SOFT SOILS

MIRAFI PET HIGH STRENGTH WOVEN GEOTEXTILE

MIRAFI® PET high strength woven geotextile is made from high tenacity polyester yarns with high long-term strength properties. It provides a cost-effective solution for greater and quicker stability of embankments constructed on soft foundations.

WHY CHOOSE MIRAFI PET?

- Enables optimum embankment height over a minimum area and steeper side slopes
- High Strength with grades from 100kN/m to 2,000kN/m
- Custom roll lengths available to facilitate ease of installation and reduce wastage on site
- Meets all NZ road authority and conformance certificate requirements

APPLICATIONS

- Stabilises embankments over soft soils and piles
- Marine reclamation works

FUNCTIONS

FILTRATION REINFORCEMENT SEPARATION

MIRAFI PET RANGE

Code	Description	Width	Length	m²	Weight
PET100/50/100	MIRAFI PET 100/50	5m	100m	500	140kg
PET200/50/100	MIRAFI PET 200/50	5m	100m	500	230kg
PET300/50/100	MIRAFI PET 300/50	5m	100m	500	320kg
PET400/50/100	MIRAFI PET 400/50	5m	100m	500	420kg
PET600/50/100	MIRAFI PET 600/50	5m	100m	500	590kg
PET800/50/100	MIRAFI PET 800/50	5m	100m	500	770kg
PET1000/50/100	MIRAFI PET 1000/50	5m	100m	500	980kg
PET1200/50/100	MIRAFI PET 1200/50	5m	100m	500	1180kg
PET1400/50/100	MIRAFI PET 1400/50	5m	100m	500	1460kg
PET1600/50/100	MIRAFI PET 1600/50	5m	100m	500	1640kg

Reinforces
soft foundations

SCAN FOR MORE DETAILS

GEOCOMPOSITES

SEAL AND WATERPROOF BLEMISHES ON ROADS

BITAC MULTI-LAMINATE ROAD TAPE

Bitac® multi-laminate road tape, a rubberised adhesive tape, is applied in concrete and asphalt road pavements to offer a waterproof, stress-relieving membrane between the existing road surface and the widening.

The high strength and high elongation properties of Bitac ensure that the waterproofing function and stress relief performance is maintained under expected traffic loads.

WHY CHOOSE BITAC?

- Sticks and bonds rapidly and permanently to clean, dry surfaces
- High puncture and joint water pressure resistance
- Withstands hot asphalt pours on roadways and carparks
- Simple to install by hand as no special tools to heat or dry are required

APPLICATIONS

- Roadways
- Carparks
- Culvert joints and repairs

FUNCTIONS

CONTAINMENT DRAINAGE

BITAC RANGE AND ACCESSORIES

Code	Description	Width	Length
BIT250	Bitac 250 Strip Tape	250mm	20m
BITP4L	Bitac Primer 4L		

High puncture resistance

Greater durability and high conformity to road surfaces

SCAN FOR MORE DETAILS

GEOGRID GEOCOMPOSITE ENGINEERED FOR STABILISATION, SEPARATION & FILTRATION

GEOFABRICS GEOGRID BITEX GEOCOMPOSITE

Improves
pavement strength on soft subgrades

Stabilises
soft and variable ground

Geofabrics® Geogrid™ Bitex® is a high-performance geocomposite engineered for strength, stability and long-term pavement performance. Combining a non-woven geotextile with Geogrid Biaxial, this system delivers exceptional separation, filtration and stabilisation in one solution.

Designed for use in road and rail applications where high-water levels, soft subgrade soils or poor-quality aggregates are present, Geogrid Bitex geocomposite provides superior structural performance, reduced construction costs and extended pavement life.

WHY CHOOSE BITEX GEOCOMPOSITE?

- Separation, filtration and interlock in one product delivers multiple geotechnical functions simultaneously, improving installation efficiency and performance
- Superior structural strength - forms a stiff Mechanically Stabilised Layer (MSL) that enhances load distribution, controls differential settlement and increases bearing capacity
- Cost-efficient construction due to reduced aggregate thickness, less excavation and faster installation for more economical project outcomes
- Enhanced filtration performance as it maintains permeability and allows efficient water flow, preventing pore pressure build-up and preserving pavement integrity
- Long-term durability by prevention of soils mixing and restriction of fine particle migration

APPLICATIONS

- Ground & pavement stabilisation

FUNCTIONS

FILTERATION

SEPARATION

STABILISATION

GEOGRID BITEX GEOCOMPOSITE RANGE

Description	Width	Length
Biaxial 30kN Geogrid with Class B Geotextile	3.95m	50m
Biaxial 40kN Geogrid with Class B Geotextile	3.95m	50m

Enhances
load distribution and stability

Integrated
separation, filtration and reinforcement layer

Extends
pavement service life

SCAN FOR MORE DETAILS

GEOGRID GEOCOMPOSITE ENGINEERED FOR HIGH-STRENGTH PAVEMENT STABILISATION

GEOFABRICS GEOGRID TRITEX GEOCOMPOSITE

Stabilises
soil and ballast for lasting pavements

Filters
water for improved drainage

SCAN FOR MORE DETAILS

Geofabrics® Geogrid™ Tritex is a high-performance, geocomposite incorporating a multi-axial geogrid engineered for soil stabilisation and ground improvement with a non-woven geotextile. Geogrid Tritex delivers exceptional separation, filtration and stabilisation in one solution for road, rail and heavy-duty pavement applications.

The geogrid is made from a punched polypropylene sheet that forms a unique hexagonal structure with triangular apertures, which confine and interlock with aggregate.

WHY CHOOSE TRITEX GEOCOMPOSITE?

- Reduces aggregate layer thickness by up to 50% without compromising performance, lowering excavation and fill costs
- Improves bearing capacity and stabilises ballast layers on rail projects, minimising track movement and maintenance requirements
- Enhanced filteration performance as it maintains permeability and allows efficient water flow, preventing pore pressure build-up and preserving pavement integrity

APPLICATIONS

- Ground & pavement stabilisation
- Track ballast stabilisation

FUNCTIONS

FILTERATION

SEPARATION

STABILISATION

GEOGRID TRITEX GEOCOMPOSITE RANGE

Description	Width	Length
Triaxial 26 - Laminated with Class B Geotextile	3.95m	50m

Available using a thicker geotextile upon request.

LOWERS RAIL TRACK REPAIRS AND MAINTENANCE

TRACKTEX GREEN ANTI-MUD PUMPING GEOCOMPOSITE

Tracktex® Green is a geocomposite material made up of two Bidim® Green geotextiles and a micro-porous filter. It is installed below the ballast in rail infrastructure projects to prevent water from penetrating the subgrade and stop mud pumping.

WHY CHOOSE TRACKTEX GREEN?

- Prevents mud pumping failure
- Provide cost savings by increasing the maintenance intervals on track beds
- Reduces construction costs with quick and easy installation, where no special tools or techniques are required

APPLICATIONS

- Mud pumping

FUNCTIONS

BARRIER

DRAINAGE

FILTRATION

SEPARATION

TRACKTEX GREEN RANGE

Code	Width	Length	m²	Weight
TRACKTEX390025	3.9m	25m	97.5	176kg

Reduces
maintenance costs

Prevents
water and soil contamination

SCAN FOR MORE DETAILS

PREVENTS STRUCTURAL DAMAGE FROM MOISTURE

CORDRAIN GEOCOMPOSITE SHEET

Cordrain® is a geocomposite vertical drainage blanket that is designed to reduce hydrostatic pressure behind structures, which lowers the likelihood of structural damage caused by foundation movements in expansive soils.

Water is filtered through a bonded geotextile and drained through a cuspated core to a collector drain, effectively removing water from site and keeping the wall free from moisture.

WHY CHOOSE CORDRAIN?

- Lowers the likelihood of structural damage caused by foundation movements in expansive soils
- Eliminates the need for aggregate or sand backfill
- Reduces hydrostatic pressure behind walls
- Assists in waterproofing structures by providing a protection layer
- Lightweight and flexible structure makes it easy to handle and quick to install

Minimises
structural
damage risk

APPLICATIONS

- Basements
- Retaining walls
- Bridge abutments
- Culverts
- Tunnel lining

FUNCTIONS

DRAINAGE

FILTRATION

CORDRAIN RANGE

Code	Description	Width	Length	m²	Weight
CD1150	Cordrain 12mm	1.15m	30m	34.5	25kg

SCAN FOR
MORE DETAILS

DRAINS AND FILTERS EXCESS GROUNDWATER

ENKADRAIN DRAINAGE GEOCOMPOSITE SHEET

Enkadrain® is a lightweight geocomposite drain that is designed to collect and discharge groundwater behind soil reinforced slopes and retaining walls.

WHY CHOOSE ENKADRAIN?

- Intercepts groundwater and channels it away from the structure to prevent slope and wall failure
- Eliminates clogging of the drainage core
- No deterioration of the boundaries associated with traditional drainage methods
- Will not degrade over time or pollute the subsoil
- Lightweight, strong and easy to install
- Various discharge capacities and compressive strengths available

APPLICATIONS

- Subsoil drainage
- Embankments
- Hydraullic structures
- Reinforced slopes and retaining walls
- Tunnel and underground works

FUNCTIONS

DRAINAGE

FILTRATION

ENKADRAIN RANGE

Code	Description	Width	Length	m²	Weight
ENKADRAIN5006H200025	Enkadrain 5006H/2 -2s/T110PP	2m	25m	50	38kg
ENKADRAIN5006H200050	Enkadrain 5006H/2 -2s/T110PP	2m	50m	100	76kg

Collects
& discharges excess surface water

Prevents
slope & wall failure

SCAN FOR MORE DETAILS

REDUCES CONSOLIDATION TIME OF SOFT SOILS

ALIDRAIN PREFABRICATED VERTICAL DRAIN GEOCOMPOSITE

Alidrain® prefabricated vertical drains (PVD) are used to accelerate the consolidation of soft soil. It consists of a permeable drainage core wrapped with a durable filter fabric that filters the pore water from the soft clay foundation soil. This enables it to pass though the drainage core where it is able to rise to the ground surface and drain away.

Speeds up
soil consolidation

Enhances
ground stability

SCAN FOR
MORE DETAILS

WHY CHOOSE ALIDRAIN?

- Significantly reduces consolidation times and increases foundation sheer strength of soft clay soils
- Provides a shorter and easier drainage path for the pore water to drain
- Conforms to international PVD specifications, meeting different drainage requirements and installation conditions
- Increases the undrained shear strength of the soft clay foundation deposits to provide ground stability improvements

APPLICATIONS

- Embankments

FUNCTIONS

DRAINAGE

ALIDRAIN RANGE

Code	Width	Length	m²	Weight
AD23001270	0.1m	270m	27	24kg

DRAINAGE

AUSTRALIAN-MADE WITH RECYCLED MATERIAL

MEGAFLO GREEN SOCKED SLOTTED DRAIN PIPE

COMPARED TO 100mm ROUND AGI PIPE

Up to
4.9x*
faster water drainage

Saves up to
50%
installation costs

* Results may vary with different round pipe and ground conditions on site

Megaflo® Green is an alternative to conventional, round agi drain pipe that collects and removes water rapidly due to its unique flat shape and ribbed profile. Its slim 40mm wide profile also means faster and more cost-effective to install.

Megaflo Green is made from HDPE recycled milk bottles and is wrapped with Bidim® Green geotextile which is also made from recycled material. Both are made in Australia.

WHY CHOOSE MEGAFLO GREEN?

- Easy to install with a range of fittings available
- Can be installed vertically or horizontally without the need to excavate a trench
- High crush resistance due to its structural rigidity
- Made from recycled material
- Verified Environmental Product Declaration (EPD) supports more sustainable infrastructure outcomes

APPLICATIONS

- Provides reliable drainage in applications such as retaining and shotcrete walls
- Drains ground water and releases hydraulic pressure behind non-structural retaining walls such as concrete and timber sleepers
- For driveways and paths, can be installed vertically in trench 100mm wide and 270mm deep minimum. Placed close to direction of water infiltration or centred in trench
- For lawns and turf, it is a trench-less installation in horizontal position, spaced 5m apart maximum. Top-dressed with free draining material
- Designed to meet the requirements of NZTA TNZ F/2 specification for pipe subsoil drain construction

FUNCTIONS

DRAINAGE

Made from
recycled
HDPE
milk bottles

MEGAFLO GREEN RANGE AND ACCESSORIES

Code	Roll Size	Weight
MEG170G020	20m	14kg
MEG170G100	100m	70kg
MEG170G050	50m	35kg
MEG300G100	100m	127kg
MEG300G050	50m	64kg
MEG450G100	100m	200kg

Code	Description	
Outlet Fittings		
MF170EO	End Outlet (90-100mm)	
MF300EO		
MF450EO		
MF170SO	Side Outlet (90-100mm)	
MF300SO		
MF450SO		
MF170RO	Right Outlet (90-100mm)	
MF170CO	Coupling	
MF300CO		
MF450CO		
MF170EC	End Cap	
MF300EC		
MF450EC		

Code	Description	
TY Multi Fitting		
MF170TY	TY Multi Fitting	

EPD Hub

SCAN FOR
MORE DETAILS

GEOGRIDS

REINFORCES SOIL FOR LONG-TERM STABILITY

MIRAGRID GX GEOGRID

MIRAGRID® GX geogrid is engineered from polymer coated high tenacity polyester yarns with a flexible structure to ensure effective interlocking and soil interaction.

It offers high tensile strength with low creep characteristics, low elongation and high chemical resistance for effective reinforcement of soil.

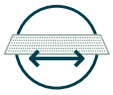
WHY CHOOSE MIRAGRID GX?

- Offers high tensile strength at low elongation and a minimal tendency to creep
- Resistant to chemical, biological and construction damage with an optimised grid structure
- Superior connection capacity with modular blocks
- Simple and quick installation with wide rolls for reduced laps and wastage
- Suitable for a wide range of soil types for long term (>100 years) reinforcement applications

APPLICATIONS

- Slopes and walls
- Basal reinforcement for embankments

FUNCTIONS



REINFORCEMENT

MIRAGRID GX RANGE

Description	Width	Length	m²	Weight
MIRAGRID GX 40/40	5.2m	100m	520	134kg
MIRAGRID GX 60/30	5.2m	100m	520	137kg
MIRAGRID GX 80/30	5.2m	100m	520	161kg
MIRAGRID GX 100/30	5.2m	100m	520	189kg
MIRAGRID GX 130/30	5.2m	100m	520	232kg
MIRAGRID GX 160/50	5.2m	100m	520	319kg
MIRAGRID GX 200/50	5.2m	100m	520	390kg

Provides reinforcement for up to

100

years

Used with a

wide variety

of fill types

SCAN FOR MORE DETAILS

ENGINEERED FOR HIGH STRENGTH PAVEMENT STABILISATION

GEOFABRICS GEOGRID BIAXIAL

Up to
50%
aggregate reduction

Stabilises
subgrade under heavy loads

SCAN FOR MORE DETAILS

Geofabrics® Geogrid™ Biaxial are stiff monolithic geogrids engineered for load support in two directions (longitudinal and transverse), making them ideal for subgrade stabilisation, pavement stabilisation and base layer improvement.

Made from polypropylene, this high-performance geogrid is designed for use in Mechanical Stabilised Layers (MSL) with granular fill to efficiently distribute loads over wider areas. Its open aperture design interlocks with a wide range of fill materials, improving soil confinement and stability.

WHY CHOOSE GEOGRID BIAXIAL?

- Reduces aggregate layer thickness by up to 50% without compromising performance
- Cuts costs and CO_2 emissions by reducing excavation, transport and aggregate use during construction
- Enhances layer stiffness to allow the use of lower-quality or recycled fill materials, reducing material costs
- Improves pavement durability by spreading heavy loads and reducing differential settlement
- Performs even in harsh conditions, by maintaining stiffness and stability in challenging weather and soil environments
- Speeds up installation, offering a fast, cost-effective stabilisation solution for roads, working platforms and heavy-vehicle pavements

APPLICATIONS

- Ground & pavement stabilisation

FUNCTIONS

REINFORCEMENT

STABILISATION

GEOGRID BIAXIAL RANGE

Description	Width	Length
Biaxial 2020	3.95m	50m
Biaxial 3030	3.95m	50m
Biaxial 4040	3.95m	50m

DESIGNED TO ENHANCE SOIL STABILISATION & PAVEMENT PERFORMANCE

GEOFABRICS GEOGRID TRIAXIAL

Geofabrics® Geogrid™ Triaxial is a high-performance, multi-axial geogrid engineered for soil stabilisation and ground improvement in road, rail and heavy-duty pavement applications.

Made from a punched polypropylene sheet, it forms a unique hexagonal structure with triangular apertures that confine and interlock with aggregate. This interlocking mechanism creates a Mechanically Stabilised Layer (MSL) that improves load distribution, increases bearing capacity and enhances pavement performance on soft or variable ground conditions.

WHY CHOOSE GEOGRID TRIAXIAL?

- Reduces aggregate layer thickness by up to 50% without compromising performance, lowering excavation and fill costs
- Improves bearing capacity and stabilises ballast layers on rail projects, minimising track movement and maintenance requirements
- Enhances layer stiffness to allow the use of lower-quality or recycled fill materials, reducing material costs
- Cuts CO_2 emissions by reducing excavation, transport and aggregate use during construction
- Increases pavement durability by spreading heavy loads and reducing differential settlement
- Speeds up installation, offering a fast, cost-effective stabilisation solution for roads, working platforms and heavy-vehicle pavements

APPLICATIONS

- Ground & pavement stabilisation
- Track ballast stabilisation

FUNCTIONS

STABILISATION

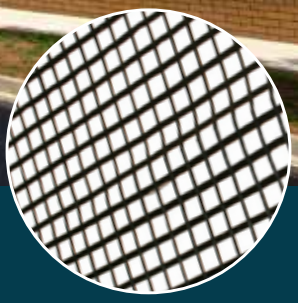
GEOGRID TRIAXIAL RANGE

Description	Width	Length
Triaxial 26	3.95m	50m
Triaxial 27	3.95m	50m
Triaxial 29L	3.95m	50m

Improves
load distribution

Stabilises
soft and variable ground

SCAN FOR MORE DETAILS



DESIGN TO CONTROL REFLECTIVE CRACKING IN ASPHALT

GLASGRID ASPHALT GEOGRID

GlasGrid® asphalt geogrid is a high strength, reinforcement grid composed of a series of fibreglass strands coated with elastomeric polymer and formed into a grid structure.

It is designed to control reflective cracking in asphalt concrete overlays on roads, freeways, bridges and car parks.

Increases pavement lifespan by up to

300%

Rapid
repair

SCAN FOR
MORE DETAILS

WHY CHOOSE GLASGRID?

- Reduces both thermal and stress-related cracking by 2-3 times
- Extends pavement service life by up to 300%, lasting up to 3 times longer than unreinforced pavements
- Reduces maintenance costs by up to 50% over the life of an average road
- Provides up to 10% better waterproofing
- UV and oxidation resistant

APPLICATIONS

Asphalt sealing and reinforcement for:

- Resurfacing existing roads
- Over road widening joints
- New road construction
- Small local repairs to potholes, joints and superstructures

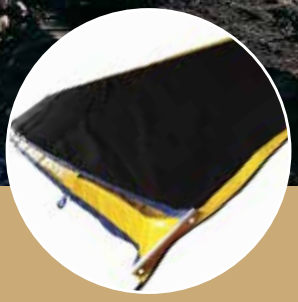
FUNCTIONS

REINFORCEMENT

GLASGRID RANGE

Code	Description	Width	Length	Area	Weight
G100-150100	GlasGrid GG100 - 100x100kN/m	1.5m	100m	150m²	66kg
CG50L-300150	GlasGrid CG50L - 50x50kN/m	3m	100m	300m²	120kg

EROSION & SEDIMENT CONTROL



CONTROLS THE MIGRATION OF SEDIMENT INTO WATERWAYS

SILT CURTAIN

Silt curtains are structures that are suspended in the water column to control water-borne sediment. They can be either permeable or impervious and are also known as turbidity curtains, flotation curtains or silt screens.

A silt curtain contains disturbed sediment within one to two metres from the water surface, allowing suspended sediment to settle within the water column by controlling dispersion.

Controls
water-borne sediment

Made from
UV stabilised materials

SCAN FOR MORE DETAILS

WHY CHOOSE SILT CURTAIN?

- Controls the migration of suspended silt and sediment, creating an area for settling to occur in waterways
- Resistant to oil and crumble-free closed cell flotation
- Reinforced webbing across the curtain for added strength and support
- Made from UV stabilised materials
- Designs can be customised to meet specific project requirements
- Supply and installation support available with our team of experts

APPLICATIONS

- Bridge, jetty and rock wall repair or construction
- Civil works in or adjacent to waterways
- Coastal or marine dredging
- Excavation and sediment pond management

FUNCTION

EROSION &
SEDIMENT CONTROL

SILT CURTAIN RANGE

Description	Roll Width	Roll Length
Silt Curtain Class 1	1m / 2m	25m
Silt Curtain Class 2	1m / 2m / 3m / 4m / 5m	20m
Heavy Duty Silt Curtain	1m / 2m	50m

PROVIDES EROSION PROTECTION TO VULNERABLE SLOPES

BIOMAC C BIODEGRADABLE EROSION CONTROL MAT

Biomac® C is an erosion control blanket made from 100% coconut (coir) fibre, covered on the top and bottom with a jute mesh. It provides immediate protection against soil erosion on vulnerable slopes from the effects of wind, rain and surface run-off.

Biomac C is placed onto top-soiled and seeded slopes to support the establishment of vegetation.

WHY CHOOSE BIOMAC C?

- Ideal for short-term protection in the establishment of vegetation on steep slopes and embankments
- Provides initial erosion protection to seed and young plants from extreme rain, wind and sun during the germination and development stage
- Provides moisture retention to soil
- Offers soil and root insulation to temperature extremes
- Biodegradable with an expected design life of 36 months in normal conditions

APPLICATIONS

- Erosion control for slopes

FUNCTIONS

EROSION &
SEDIMENT CONTROL

BIOMAC C RANGE

Code	Description	Width	Length	m²	Weight
BIOCJ300240050	Biomac CJ-300	2.4m	50m	120	36kg
BIOCJ450240050	Biomac CJ-450	2.4m	50m	120	54kg

Soil erosion
protection

Supports
vegetation
establishment

SCAN FOR
MORE DETAILS

PROTECTS AGAINST EROSION AND SUPPRESSES WEED GROWTH

BIOMAC WOOLMULCH BIODEGRADABLE EROSION CONTROL MAT

Biomac® Woolmulch™ is a 100% biodegradable wool matting used in the establishment of trees, shrubs and groundcovers in landscape plantings. It provides erosion protection to the soil by preventing moisture lost during the establishment of the plant root structure, and suppresses weed growth.

WHY CHOOSE BIOMAC WOOLMULCH?

- Suitable for use in commercial and residential landscaping, horticulture and re-vegetation applications
- Provides insulation by keeping soil cool in summer and warm during cooler seasons to facilitate improved plant growth, all-year round
- Inhibits the development of weeds during early plant growth
- Increases soil water retention
- Biodegrades to provide plant nutrients during growth

Optimises
soil water retention

APPLICATIONS

- Erosion control on planted slopes located along road edges
- Grass establishment on gentle slopes

Stops
weed growth

FUNCTIONS

EROSION &
SEDIMENT CONTROL

SCAN FOR
MORE DETAILS

BIOMAC WOOLMULCH RANGE

Code	Width	Length	m²	Weight
WMULCHR5000210030	2.1m	30m	63	32kg

DESIGNED FOR EROSION AND SEDIMENT CONTROL

BIOMAC WATERLOG BIODEGRADABLE COIR LOG

Biomac waterlogs are tubes filled with tightly packed coconut fibres and coir netting, designed to capture sediment around open drains, slow water runoff, protect surrounding plants and soil, and capture sediment in drainage lines and swales.

It is 100% biodegradable, perfectly blending in with the natural environment and habitat for both plants and animals.

WHY CHOOSE BIOMAC WATERLOG?

- Stabilises riverbanks and reduces long-term environmental impact from heavy flow and sediment movement
- Acts as a micro-climate to promote plant growth
- Made from 100% coir netting which slowly biodegrades within 4 to 10 years
- Provides immediate protection to shorelines once installed
- Flexible structure that curves to adapt to any surface, vegetation, and riverbanks

APPLICATIONS

- Re-establishing vegetation
- Manage water velocity changes in streams and rivers
- Stabilises shorelines
- Shaping channels
- Sediment entrapment

FUNCTIONS

EROSION &
SEDIMENT CONTROL

BIOMAC WATERLOG RANGE

Code	Width	Length	m²	Weight
WLOG300024	0.3m	2.4m	0.72	33kg

Biodegradeable within **4-10** years

Effectively **captures sediment**

SCAN FOR MORE DETAILS

PROTECTS FROM EROSION & RESTORES THE ENVIRONMENT

GRASSROOTS SYNTHETIC EROSION CONTROL MAT

Improves plant establishment by **555%** in biomass

Protects from erosive conditions

SCAN FOR MORE DETAILS

Grassroots® is a synthetic erosion control mat that promotes the growth of vegetation and restoration of the environment by trapping seed, soil and water.

It provides permanent protection to soil on steep slopes and in channels from water flow, rain, wind, and other erosive conditions by allowing seeds to germinate and grow through the matting.

WHY CHOOSE GRASSROOTS?

- Reduces the loss of soil during moderate to heavy rainfall events
- Provides strong erosion control in channel lining and road edge rehabilitation applications
- Proven UV resistance with stabilised fibres, ensuring no degradation or loss of tensile strength after 1,000 hours of accelerated testing
- Long-term reliability ensures immediate protection against soil loss, enduring exposure to weather conditions before vegetation is established
- Creates a stable environment, increasing plant biomass by 555% in 21 days

APPLICATIONS

- Channels and swale drains
- Wetlands and floodways
- Spillways
- Embankments and steep slopes

FUNCTIONS

EROSION & SEDIMENT CONTROL

GRASSROOTS RANGE

Code	Width	Length	m²	Weight
EGR400	4m	60m	240	120kg
EGR200	2m	60m	120	60kg

CONTROLS EROSION AND BLENDS INTO THE LANDSCAPE

ENKAMAT TURF REINFORCEMENT EROSION CONTROL MAT

Enkamat® is a three-dimensional mat with an open structure, made from polyamide (PA) monofilaments which are welded where they cross. It acts as a intermediate reinforcing layer between natural vegetation and soil.

Enkamat can be seeded or filled with topsoil or mulch, which helps to keep the fertile soil in place and prevents the fill from being washed out.

WHY CHOOSE ENKAMAT?

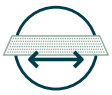
- Durable filament core structure with over 95% open voids, allowing soil to be contained within the mat and preventing it from being eroded away by rain or wind
- Encourages swift vegetation growth and discreetly blends into the natural landscape
- Easily adapts to various soil profiles
- Designed to help nature develop strong vegetation for permanent erosion protection

APPLICATIONS

- Erosion and sediment control
- Waterways and spillways
- Embankments
- Slopes

FUNCTIONS

EROSION & SEDIMENT CONTROL



REINFORCEMENT

Prevents
soil erosion

Supports
vegetation growth

SCAN FOR MORE DETAILS

ENKAMAT RANGE

Code	Width	Length	m²	Weight
ENKA7018/2120	1.95m	120m	234	70kg
ENKA7010/102150	1.02m	150m	153	40kg
ENKA7010/2150	1.95m	150m	292.5	80kg

A HEAVY-DUTY AND NATURAL EROSION CONTROL MAT

JUTE BIODEGRADABLE EROSION CONTROL MAT (THICK)

Jute Mat Thick is a heavy-duty erosion control matting made from natural jute fibres that are 100% biodegradable over time. It acts as a mulch, providing weed suppression and moisture retention to enhance plant establishment, while protecting the topsoil from erosion.

WHY CHOOSE JUTE MAT THICK?

- Protects exposed soils from erosion while allowing the seeds to grow through the mat
- Can be subjected to water flow of up to 1.8 metres per second
- Ideal for revegetation and can be used to supress weed growth
- Holds in moisture to aid the growth of plants
- 100% organic natural fibres which are biodegradable over an 18-month period

APPLICATIONS

- Slopes up to 1:1 or 45 degrees
- Swale drains
- Roadside landscaping
- Garden and revegetating beds
- Wetlands and riverbanks
- Channels
- Coastal sites

FUNCTIONS

EROSION &
SEDIMENT CONTROL

100%
biodegradable fibres

Suppresses weeds

SCAN FOR
MORE DETAILS

JUTE MAT THICK RANGE

Code	Description	Width	Length	m²
JUTE6502000025	Jute Mat 650	2m	25m	50

A LIGHT-GRADE EROSION CONTROL MAT

JUTE BIODEGRADABLE EROSION CONTROL MAT (MEDIUM)

Jute Mat Medium is a medium-grade erosion control matting made from natural jute fibres that are 100% biodegradable over time. It acts as a blanket, protecting topsoil a from water and wind erosion while promoting a moist micro-climate for plant establishment.

WHY CHOOSE JUTE MAT MEDIUM?

- Provides an ideal environment for seed germination by retaining moisture at the soil level
- Protects the soil from erosion, while allowing the plants to grow through the mat
- Can be subjected to water flow of up to 1.8 metres per second
- Acts as a roll-on mulch, adding organic matter to the soil as it breaks down
- Ideal for revegetation and can be used to suppress weeds

APPLICATIONS

- Roadside landscaping
- Golf courses
- Steep slopes
- Wetlands and riverbanks
- Coastal sites

FUNCTIONS

EROSION &
SEDIMENT CONTROL

JUTE MAT MEDIUM RANGE

Code	Width	Length	m²	Weight
JUTE4502000025	2m	25m	50	28kg

100%
organic and biodegradable fibres

Promotes
plant growth

SCAN FOR
MORE DETAILS

CONTROLS EROSION & BLENDS INTO THE LANDSCAPE

GEOFABRICS GEOMAT HD EROSION CONTROL MAT

Retain soil with less than **95%** open voids

Geofabrics Geomat® HD erosion control mat is a three-dimensional geocomposite reinforced with a double twisted steel wire mesh. By combining synthetic matting with steel reinforcement, Geomat provides tensile mechanical strength and long-term erosion protection.

The design and structure of Geomat HD facilitates natural vegetation growth. Once established, Geomat HD integrates seamlessly into the surrounding landscape while controlling erosion. Geomat HD offers long-lasting protection against erosion caused by rainfall, surface runoff and flowing water. It is ideal for stabilising roadway embankments, ditches, slopes, drainage channels, riverbanks and other erosion-prone areas.

WHY CHOOSE GEOMAT HD?

- Integrated steel mesh strengthens the mat and stabilises subsoil
- Ideal for very steep slopes with minimal soil cover
- Provides up to 50 kN/m soil reinforcement for demanding erosion control
- Easy edge connections ensure continuous, overlap-free coverage
- Protects topsoil while promoting vegetation for long-term stability

APPLICATIONS

- Embankments
- Erosion & sediment control
- Hydraulic engineering & structures
- Reinforced slopes & retaining walls
- Rockfall protection

FUNCTIONS

EROSION & SEDIMENT CONTROL

STORMWATER

EFFICIENTLY CAPTURES STORM WATER UNDERGROUND

ATLANTIS FLO-VAULT MODULAR STORAGE SYSTEM

Atlantis Flo-Vault® is a lightweight modular tank system used to construct underground water storage for a wide range of applications.

It offers a highly efficient option for storm water management in any type of soil and can be installed to various shapes and depths to meet specific project storage requirements.

Saves up to
70%
in assembly time

WHY CHOOSE ATLANTIS FLO-VAULT?

- Saves up to 70% in assembly time with lightweight tank modules that make installation quicker
- Maximises storage capacity as it provides a void space of over 90% compared to less than 20% typical of aggregate trenches
- Uses surface and underground infiltration techniques, resulting in clean water that can be re-used or allowed to re-enter the natural water system
- Suitable for use in most kinds of soil grades with no sediment build-up

APPLICATIONS

- Captures rainwater from landscaped areas and roofs

Clean
water supply

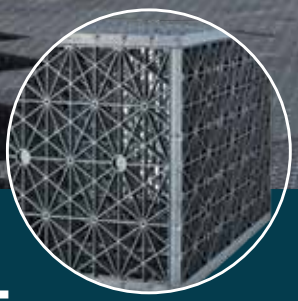
FUNCTIONS

DRAINAGE CONTAINMENT

ATLANTIS FLO-VAULT RANGE AND ACCESSORIES

Code	Description	Volume	Weight
FLO-VAULT-HM	Flo-Vault Half (2 pieces per module)	0.016m³	3.4kg
FLO-VAULT-SP	Flo-Vault Side Panel	0.01m³	2.3kg
FLO-VAULT-SC	Flo-Vault Single Clips (400 per box)		
FLO-VAULT-DC	Flo-Vault Double Clips (200 per box)		

SCAN FOR
MORE DETAILS



OPTIMISES STORMWATER MANAGEMENT

ATLANTIS FLO-TANK MODULAR UNDERGROUND STORAGE SYSTEM

Atlantis Flo-Tank modular underground storage system is designed to cleanly capture stormwater. The system can be installed in various volumes, shapes and depths to meet specific project requirements.

WHY CHOOSE ATLANTIS FLO-TANK?

- High infiltration with 95% void surface area
- 1 m³ of Flo-Tank holds up to 950 litres of water
- Maintenance free tank with all debris and sediment removed by pre-filtration
- Cost-effective solution compared to concrete and other conventional systems with excavation and disposal reduced by two thirds

APPLICATIONS

Suitable to use in residential and commercial projects:

- Infiltration tank that cleans and filters surface water, providing moisture to surrounding vegetation
- Rainwater harvesting from landscaped and rooftops
- Detention tank that captures water from roofs and paved areas

FUNCTIONS

DRAINAGE

FILTRATION

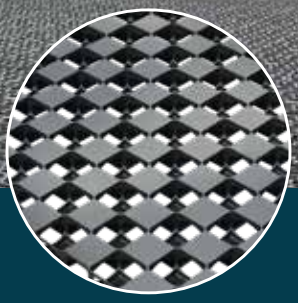
ATLANTIS FLO-TANK RANGE

Code	Description	Volume	Weight
FLO-TANK-LG	Flo Tank Large Plate	0.0056m³	1.2kg
FLO-TANK-SM	Flo Tank Small Plate	0.003m³	0.65kg
FLO-TANK-MINI-LG	Flo Tank Mini Large Plate		
FLO-TANK-MINI-SM	Flo Tank Mini Small Plate		

Cleanly
harvests
stormwater

Low
maintenance

SCAN FOR
MORE DETAILS



SUB-SOIL DRAINAGE UNDER PERMANENT LOADS

ATLANTIS FLO-CELL DRAINAGE CELL

Atlantis Flo-Cell® is a drainage cell made from high-quality recycled materials with high compressive strength used for sub-soil drainage under permanent loads.

Flo-Cell features water retention cups that provide optimal moisture conditions for growing media such as plants.

WHY CHOOSE ATLANTIS FLO-CELL?

- Increases the permeability of ground areas, reducing overland flow and facilitates groundwater recharge
- Made under stringent quality control, this ensures long life durability as it is resistant to all ground chemicals, and it will not collapse or distort if used correctly
- Strong structural design where Flo-Cell can be installed horizontally or vertically and can be easily configured to meet specifications
- High infiltration with a 90% void ratio

APPLICATIONS

Ideal for sub-soil drainage including:

- Plaza landscaping
- Roof gardens
- Sports fields

FUNCTIONS

DRAINAGE

STABILISATION

ATLANTIS FLO-CELL RANGE

Code	Description	Volume	Weight
FLO-CELL-30MM	Flo-Cell 30mm	0.01m³	1.9kg
FLO-CELL-50MM	Flo-Cell 50mm	0.017m³	4.95kg
FLO-CELL-SP	Flo-Cell Shear Pin		

High compressive **strength**

SCAN FOR MORE DETAILS

GEOMEMBRANES

LINER PROTECTION FOR WASTE & WATER CONTAINMENT

ATARFIL HD GEOMEMBRANE

Atarfil Geomembranes (GMBs) are manufactured from high quality resins of polyethylene (PE) for the containment of water and waste. High-density polyethylene (HDPE) and linear low-density polyethylene (LLDPE) impermeable barriers are available, providing longevity when immersed in highly contaminated solids and liquids resulting from mining and waste processes.

It is ideal for use against harsh liquids in mining applications, where degradation is accelerated by a combination of heat, UV exposure, and chemical interactions. The geomembranes are also used in waste containment to prevent potential contamination of soils.

Durable barriers
for effective containment

WHY CHOOSE HD GEOMEMBRANES?

- Optimises cost and maximises longevity
- Excellent resistance to chemistry
- Maintains performance over time
- Option to include coloured geomembranes and/or a conductive layer for spark testing of defects or holes that may arise from installation damage or manufacturing defects

APPLICATIONS

- Containment, lining and capping of tailing dams, process water ponds and evaporation ponds and tanks

FUNCTIONS

BARRIER

CONTAINMENT

ATARFIL RANGE

Description	Width	Length
HDPE 1.5mm Smooth	7.5m	140m
HDPE 2.0mm Smooth	7.5m	105m
HDPE 1.5mm Textured 1 Side	7.5m	100m
HDPE 1.5mm Textured 2 Side	7.5m	100m

Description	Width	Length
HDPE 2.0mm Textured 1 Side	7.5m	80m
HDPE 2.0mm Textured 2 Side	7.5m	80m
LLDPE 1.0mm Smooth	7.5m	210m
LLDPE 1.5mm Smooth	7.5m	140m

SCAN FOR MORE DETAILS

PROTECTS INFRASTRUCTURES FROM SHALLOW ROOTS

ROOT BARRIER GEOMEMBRANE

Root barrier is a lightweight and flexible polyethylene geomembrane. It is designed to protect infrastructure by preventing damage from invasive roots.

Root barrier is highly durable and resistant to UV, chemicals and fungus, making it ideal for both residential and commercial use.

WHY CHOOSE ROOT BARRIER?

- Prevents the spread of invasive plant roots by providing a barrier against shallow roots, reducing uplifting of sidewalks
- Redirects roots downwards, encouraging deep rooting to anchor trees and avoiding root circling
- Lightweight and easy to install with a narrow width excavator
- Dimple product profile for extra friction generated by affected roots
- Reduces the risk of costly damage to roads, parking areas, building foundations, and buried installations

APPLICATIONS

- Erosion and sediment control

FUNCTIONS

BARRIER

ROOT BARRIER RANGE

Code	Width	Length	m²	Weight
RB600	0.6m	30m	18	12kg
RB900	0.9m	30m	27	18kg
RB1200	1.2m	30m	36	24kg

Encourages
stable root systems

Prevents
spread of invasive plant roots

SCAN FOR MORE DETAILS

GEOCELLS

STABILISES CHALLENGING SOIL FOUNDATION

GEOWEB CELLULAR CONFINEMENT GEOCELL SYSTEM

Geoweb® cellular confinement geocell is a soil stabilisation system that prevents erosion and improves the structural performance of soil or aggregate infill. Made from HDPE, the system houses a network of interconnected cells that confine and compact the soil.

It comes in collapsed, lightweight panels that can be easily handled and installed onsite using ATRA clips to anchor the cellular panes into position.

WHY CHOOSE GEOWEB?

- Robust UV resistant, three-dimensional structure for use with different fills
- Quick installation with the use of patented ATRA clip connection system or high strength tendons, saving on installation costs
- Eco-friendly soil stabilisation solution that blends into the natural environment
- Reduces the thickness of structural support elements by 50%
- Perforations allow infill to interlock with the cell walls, increasing frictional resistance, creating a better armoured slope

APPLICATIONS

- Load support
- Retaining walls and slope protection
- High velocity channels

FUNCTIONS

EROSION & SEDIMENT CONTROL

CONTAINMENT

STABILISATION

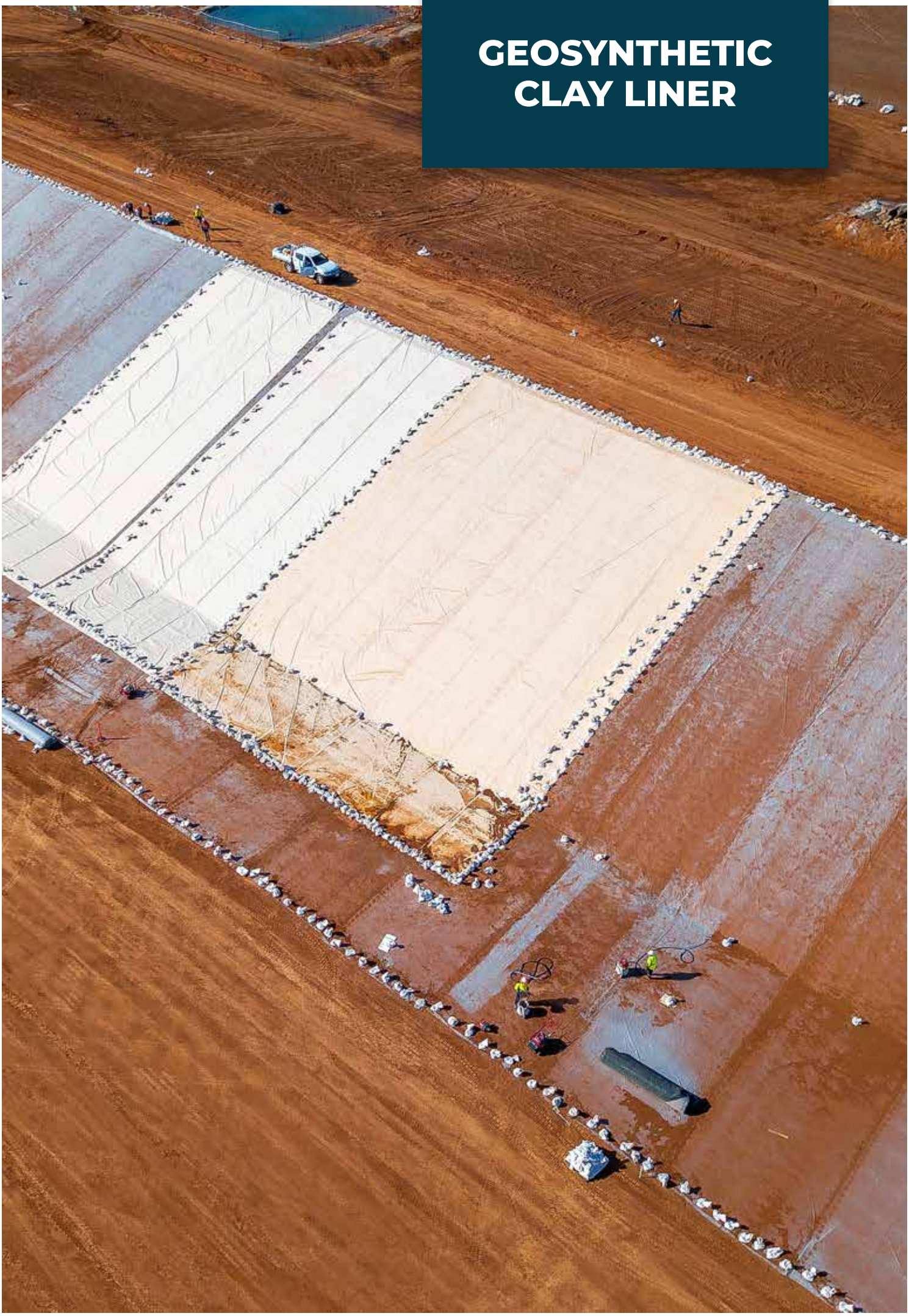
GEOWEB RANGE

Code	Panel	Width	Length	m²	Weight
OW30V41630PT	100mm	5.05m	9.10m	45.96	39kg/Panel
OW30V61630PT	150mm	5.05m	9.10m	45.96	56kg/Panel
OW30V81630PT	200mm	5.05m	9.10m	45.96	78kg/Panel

Eco-friendly
soil stabilisation solution

SCAN FOR MORE DETAILS

GEOSYNTHETIC CLAY LINER



PREVENTS GROUNDWATER CONTAMINATION

ELCOSEAL GEOSYNTHETIC CLAY LINER

Elcoseal® geosynthetic clay liners (GCLs) are used as a lining system in landfill, liquid waste and water containment structures to form a barrier that prevents contamination of surrounding groundwater. It consists of a layer of high-quality sodium bentonite powder bonded between two or more layers of woven and non-woven geotextiles made with high-tenacity polypropylene fibres.

WHY CHOOSE ELCOSEAL?

- Enhanced reliability due to consistent low permeability performance
- Increased void spacing within the landfill by removing the need for 1 metre thick compacted clay layer
- Hydraulic protection equivalent to a 1 metre thick layer of compacted clay
- Reduced installation time and waste due to the supply of rolls in custom grades and lengths

APPLICATIONS

- Containment for effluent ponds, lakes and wetlands
- Water storage lining for irrigation canals and channels
- Tailing dams

FUNCTIONS

BARRIER

CONTAINMENT

ELCOSEAL RANGE AND ACCESSORIES

Code	Description	Width	Length	m²	Weight
X800470045	Elcoseal X800	4.7m	45m	240	1130kg
X1000470045	Elcoseal X1000	4.7m	45m	240	1200kg
X2000470045	Elcoseal X2000	4.7m	45m	240	1230kg
XSLING	Elcoseal Lifting Slings				
HP PASTE	Elcoseal HP Paste				20L

Low permeability
lining system

Increase
void capacity

SCAN FOR MORE DETAILS

LINING SYSTEMS

REDUCES WATER SEEPAGE IN CHANNEL LINING APPLICATIONS

CONCRETE CANVAS CCX GEOSYNTHETIC CEMENTITIOUS COMPOSITE MAT (GCCM)

Concrete Canvas® CCX™ blends geomembrane impermeability with concrete protection and durability. It installs as quickly as conventional geosynthetics, curing within 24 hours to form a durable, ready-to-use concrete liner.

CCX products exceed the minimum requirements of ASTM D8364 – Standard Specification for GCCM Materials, Type II.

WHY CHOOSE CONCRETE CANVAS CCX?

- Highly impermeable LLDPE geomembrane reduces or eliminates seepage losses
- Highly durable with an abrasion resistance more than 3.5 times that of standard OPC concrete
- Rapid installation, curing within 24 hours, minimising infrastructure downtime
- 10x reduction in logistical impact, using fewer trucks and cutting operational costs
- Substantial embodied carbon reduction compared to traditional concrete linings
- Long-term performance with a life expectancy exceeding 50 years

APPLICATIONS

- Channels and irrigation channels
- Waterways

FUNCTIONS

BARRIER

CONTAINMENT

DRAINAGE

EROSION & SEDIMENT CONTROL

PROTECTION

CONCRETE CANVAS CCX RANGE

Code	Roll Width	Roll Length	m²	Weight
CCX-M50	1.9m	50m	95	1371kg
CCX-M25	1.9m	25m	47.5	670kg

10x more efficient in logistical footprint

Exceeds the minimum requirements of **ASTM D8364 Type II**

SCAN FOR MORE DETAILS

DESIGNED FOR EROSION CONTROL AND CONTAINMENT

CONCRETE CANVAS GEOSYNTHETIC CEMENTITIOUS COMPOSITE MAT (GCCM)

Concrete Canvas® GCCM is a flexible, concrete impregnated fabric that hardens when hydrated to form a thin, durable, water proof and fire resistant concrete layer. It used in a wide range of erosion control and weed suppression applications.

Concrete Canvas is the world's first patented GCCM that meets ASTM D8364 – Standard Specification for GCCM Materials, exceeding the requirements for Type I, Type II and Type III applications.

Up to
10x
faster to install
compared to conventional concrete

WHY CHOOSE CONCRETE CANVAS?

- Rapid installation with Concrete Canvas laid at a rate of 200m²/hour by a three-person team
- Easy to use with portable rolls available, reducing the need for equipment on site and allowing concrete installation in areas with limited access
- Lowers project costs due to the speed and ease of installation, with less logistical burden. Up to 200m² of Concrete Canvas can be supplied on a single pallet, greatly reducing transportation logistics and on site storage
- Eco-friendly solution with a low mass, lower carbon technology, which uses up to 95% less material than conventional concrete
- It is five times more abrasion resistant than standard Ordinary Portland Cement (OPC) concrete
- Excellent chemical resistance and UV durability

APPLICATIONS

- Slope protection, bund lining, aquatic plant or toxic algae control

FUNCTIONS

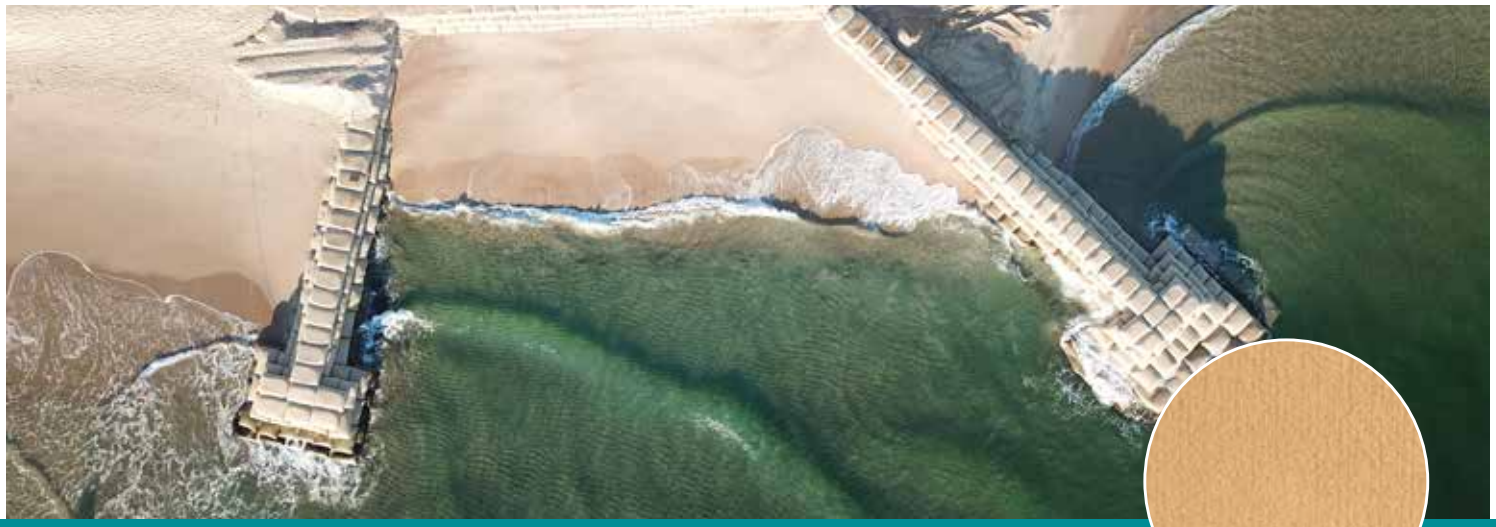
BARRIER | CONTAINMENT | DRAINAGE | EROSION & SEDIMENT CONTROL | PROTECTION

CONCRETE CANVAS RANGE

Code	Description	Roll Width	Roll Length	m²	Weight
CCT1-BATCHED	Concrete Canvas T1	1m	10m	10	87.69kg
CCT2-BATCHED	Concrete Canvas T2	1.1m	4.55m	5	66.15kg
CCT3-BULK	Concrete Canvas T3	1.1m	72.73m	80	1550kg

SCAN FOR MORE DETAILS

COASTAL EROSION CONTROL



A DEFENSIVE BARRIER AGAINST COASTAL EROSION

ELCOROCK GEOSYNTHETIC SAND CONTAINER

20 years
of proven success

Long-term outdoor durability

SCAN FOR MORE DETAILS

Elcorock® is a shoreline protection system that consists of sand filled geotextile containers built to form a stabilising, defensive barrier against coastal erosion.

It is highly resistant to abrasion, hydrocarbon, impact damage and UV degradation, which makes Elcorock ideal for constructing breakwaters, sea walls, revetments, groynes and artificial reef.

WHY CHOOSE ELCOROCK?

- Long-term outdoor durability in exposed applications due to high quality virgin polypropylene Texcel non-woven fibres which have a unique stabiliser and antioxidant formula
- Cost-effective alternative to traditional coastal erosion protection systems made from concrete, rock armour, steel or timber
- Natural look and soft feel increases public amenity of foreshore areas, enhancing the environment and allowing people to sit on the layers of Elcorock geotextile sand containers
- A composite geotextile which has an added layer of needle punched UV stabilised fibres that also act as a vandal deterrent layer

APPLICATIONS

- Waterways including coasts, rivers, ports and harbours

FUNCTIONS

EROSION & SEDIMENT CONTROL

RETAINING

ELCOROCK RANGE

Code	Description	Weight
ER250V	2.5m³ Elcorock - Vandal Deterrent 2 Side	25kg
ER250VF	2.5m³ Elcorock - Vandal Deterrent 2 Side (Self Healing Toe)	39kg
ER500V2P	5.0m3 Elcorock - Vandal Deterrent 2 Side - 2 Port	47kg

PROTECTS SHORELINE AND RIVERBANK FROM EROSION

AQUAROCKBAG

AquaRockBag® is a virgin HDPE mesh net that is filled with graded rock to create a permanent, flexible barrier or structure in freshwater and saline environments.

This preserves water quality and aquatic ecosystems, ensuring effective mitigation of erosion, stabilisation of shorelines, habitat restoration and a robust flood defence system.

WHY CHOOSE AQUAROCKBAG?

- Lowers project costs with a flexible net structure that adapts well to uneven surfaces, eliminating the need for ground preparation works
- Net is fully recyclable and offers excellent anti-abrasion properties and high UV resistance
- It can be rapidly vegetated to establish a natural habitat for aquatic ecosystems.
- Quick and easy installation, the net is filled onsite using a portable filling frame and machinery, requiring only basic on-site staff training
- Customised to fit specific coastal protection needs, providing flexibility in design and implementation in typical applications areas such as river banks, shores and bridge piers
- Designed to handle projects big and small, supporting weights from 1 to 12 tonnes

APPLICATIONS

- Waterways including coasts, rivers, ports and harbours
- Scour protection around bridge piers and flood emergency response

FUNCTIONS

EROSION & SEDIMENTCONTROL

RETAINING

AQUAROCKBAG RANGE

Code	Description	Volume	Weight
AQUAROCK1THDPE	1T Flexible Rope HDPE	0.033m³	9kg
AQUAROCK2THDPE	2T Flexible Rope HDPE	0.05m³	15kg

Made from recyclable virgin HDPE

Erosion & scour control

SCAN FOR MORE DETAILS

CONCRETE BLOCKS

PROVEN EARTH RETAINING SYSTEM FOR WALLS

KEYSTONE TW3 CONCRETE BLOCK WALL SYSTEM

Keystone® TW3 concrete block wall system is designed to help reinforce the soil behind, creating a maintenance-free earth retaining wall structure with up to 120 years design life. The wall system consists of 200mm high pre-cast concrete modular facing blocks that is securely connected to Tensar® RE uniaxial geogrid.

WHY CHOOSE TW3?

- Savings of up to 50% in construction costs compared to conventional construction methods such as reinforced concrete retaining walls
- High-strength, positive connection to permanently support the face, even under severe dynamic loading such as earthquakes
- Versatile system that can accommodate curves, stairs and other design requirements
- Quick and easy to install without cranes, as it is simply dry-laid which helps to reduce construction costs

APPLICATIONS

- Retaining walls
- Bridge abutments
- Culvert and tunnel portal entrances

FUNCTIONS

RETAINING

TW3 RANGE

Description	Width	Length	Height	Weight
Keystone TW3 Rockface	300mm	455mm	200mm	39kg

120
years design life

Saves up to
50%
construction costs

NOTHING STACKS UP QUITE LIKE VERTI-BLOCK

VERTI-BLOCK CONCRETE BLOCK

Verti-Block® is a perfectly proportioned concrete block used in popular types of applications across civil engineering and landscaping projects to build retaining walls. Its unique interlocking connection design improves accuracy and mechanical connection between the blocks.

WHY CHOOSE VERTI-BLOCK?

- A perfectly proportioned mass hollow block measuring 610mm (h) x 1200mm (l) x 910mm (w) that is used for soil reinforced and gravity walls, with a variety of shapes, including corner blocks, to accommodate for all civil engineering & landscaping needs
- Easy installation as the blocks can be moved and put into place with smaller equipment; there's no need for heavy machines like a crane. The interlocking connection design increases placement accuracy, ensuring strength and an exact installation every time
- Engineered for strength, the hollow nature of Verti-Block improves its ability to retain earth, even in poor soil conditions, it can be stacked higher than other blocks with or without the use of tiebacks or geogrids
- Cost effective solution as the hollow design of Verti-Block means that it is lighter, which lowers labour, equipment and transportation costs, compared to solid black options
- Provides a look like no other with its rockwork appearance, making a finished wall appear more like stacked stone. The blocks are easily stained to complement its surroundings with a beautiful, weather and UV-resistant finish

Construct gravity walls up to

4.3m high

Smart interlocking design

for placement accuracy

APPLICATIONS

- Retaining walls
- Property dividers
- Terracing
- Gravity walls
- Base for fencing or railings
- Reinforced geogrid walls

FUNCTIONS

RETAINING

VERTI-BLOCK RANGE

Code	Description	Width	Length	Height	Depth
VBSTD	Standard Block	610mm	1220mm	910mm	796kg
VBTOP	Top Block	610mm	1220mm	910mm	593kg
VBHAL	Half Block	610mm	610mm	910mm	484kg
VBHTB	Half Top Block	610mm	610mm	910mm	336kg
VBCNR	Right Corner Block	610mm	1220mm	610mm	724kg
VBCNRL	Left Corner Block	610mm	1220mm	610mm	724kg
VBCTBR	Right Corner Top Block	610mm	1220mm	610mm	652kg
VBCTBL	Left Corner Top Block	610mm	1220mm	610mm	652kg
VBHSB	Half Step Block	305mm	1220mm	889mm	441kg
VBHST	Half Step Top Block	305mm	1220mm	915mm	292kg
VBHSCR	Right Half Step Corner	305mm	1220mm	610mm	374kg
VBHSCL	Left Half Step Corner	305mm	1220mm	610mm	374kg
VBHSTCR	Right Half Step Top Corner	305mm	1220mm	610mm	312.5kg
VBHSTCL	Left Half Step Top Corner	305mm	1220mm	610mm	312.5kg
VB2CA	2-Sided Cap	153mm	1220mm	660mm	216kg
VB3CA	3-Sided Cap	153mm	1220mm	660mm	216kg
VB1200ME	1200 Mass Extender	610mm	1220mm	1220mm	1213kg
VB1500ME	1500 Mass Extender	610mm	1220mm	1520mm	1592kg
VB1800ME	1800 Mass Extender	610mm	1220mm	1830mm	1950kg
VB1200HME	1200 Mass Half Block Extender	610mm	610mm	1220mm	631kg
VB1500HME	1500 Mass Half Block Extender	610mm	610mm	1520mm	753kg

Various shapes
available

Engineered
for poor soil conditions

Quick to install
by a two-person team

SCAN FOR MORE DETAILS

WIRE MESH SYSTEMS

MODULAR SYSTEM FOR VEGETATED REINFORCED SOIL SLOPES

GEOFABRICS GEOMESH NATURAL WIRE MESH SYSTEM

Geofabrics Geomesh® Natural wire mesh is a modular system for creating vegetated, soil-reinforced slopes and embankments that blend into the environment. The units consists of Zn/Al and PVC coated double-twist steel wire mesh, forming inclined front faces at angle of 70 degrees.

WHY CHOOSE GEOMESH NATURAL?

- Offers a design life up to 120 years under normal environmental conditions
- Provides resistance to abrasion, UV rays, and chemicals
- Promotes rapid vegetation by incorporating an erosion control blanket lining within the unit, which is filled with soil to support and encourage plant development
- Quick and easy installation with the use of bracing brackets to support the face at the designated angle

APPLICATIONS

- Reinforced Slopes & Retaining Walls
- Disaster Prevention & Recovery
- Erosion & Sediment Control
- Rockfall Protection

FUNCTIONS

EROSION & SEDIMENT CONTROL

REINFORCEMENT

RETAINING

GEOMESH NATURAL RANGE

Description	Face Angle	Width	Length	Height
Geomesh Natural	70°	2m	2m	0.6m

120 years design life

Promotes vegetation growth

SCAN FOR MORE DETAILS

CONSTRUCT STEEP SOIL SLOPES WITH GABION ROCK

GEOFARBICS GEOMESH ROCK WIRE MESH

Geofabrics Geomesh® Rock wire mesh is a modular soil reinforcement system designed to create steep soil structures with a rock-face finish, allowing for facings at angles of up to 87 degrees. The system consists of prefabricated units made from Zn/Al and PVC coated double-twist wire mesh.

WHY CHOOSE GEOMESH ROCK?

- Offers a design life up to 120 years under normal environmental conditions
- Provides resistance to abrasion, UV rays and chemicals
- Suitable for structures up to 3 metres in height without geogrid reinforcement, and capable of reaching over 70 metres with geogrid reinforcement
- Cost savings in materials by reducing the need for imported materials, thanks to the decreased use of facing stone which requires no ongoing maintenance

Greater resistance
to abrasion, UV & chemicals

APPLICATIONS

- Erosion and sediment control
- Reinstating slips and dropouts
- Reinforcing steep slopes
- Bridge approach ramps
- Rockfall protection

FUNCTIONS

EROSION & SEDIMENT CONTROL

REINFORCEMENT

RETAINING

GEOMESH ROCK RANGE

Description	Face Angle	Width	Length	Height
Geomesh Rock	70° / 80° / 87°	2m	2m	0.6m

SCAN FOR MORE DETAILS

MODULAR GABION SYSTEM FOR MECHANICALLY STABILISED EARTH WALLS

GEOFABRICS GEOMESH GABION WIRE MESH SYSTEM

Geofabrics Geomesh® Gabion is a modular wire mesh system used to build rock-faced retaining walls. Made from durable, polymer-coated double-twisted mesh, it can be combined with geogrid reinforcement to form strong MSE walls (over 50m high) with vertical or stepped faces. The system uses rock-filled gabions and reinforced backfill to create a stable structure, making it ideal for infrastructure projects like roads, rail, and mining.

WHY CHOOSE GEOMESH GABION?

- Manufactured for an expected working life of up to 120 years, ensuring long-term durability and performance
- High-grade polymer-coated wire mesh provides exceptional corrosion resistance and structural strength, ensuring reliable performance in high corrosive environments
- Suitable for constructing vertical MSE retaining walls in excess of 30 metres with geogrid reinforcement
- Tested to ensure compliance with international quality standards

APPLICATIONS

- Reinforced Slopes & Retaining Walls
- Disaster Prevention & Recovery

FUNCTIONS

REINFORCEMENT

RETAINING

Designed for rock-faced MSE walls in excess of 50m high

SCAN FOR MORE DETAILS

GABION CAGES FOR RETAINING WALLS & EROSION CONTROL

GEOFABRICS GEOBOX GABION BASKET

Geofabrics Geobox® gabion baskets are constructed with double-twisted steel wire mesh to form retaining walls. Designed to interconnect with adjacent units, this allows them to create flexible, permeable and continuous structures. It makes them ideal for applications such as gravity retaining walls, erosion control, channel linings, revetments and hydraulic structures like weirs.

The gabion baskets are assembled on-site and filled with either locally sourced or imported rocks. Rocks are carefully hand-placed on all visible faces to achieve a neat and visually consistent finish, ensuring both structural integrity and aesthetic appeal. Geobox gabion baskets are ideally suited for a wide range of projects including civic, landscaping, sport and recreation and construction.

Build

5-10 m

high gabion walls

Provides effective

erosion control

WHY CHOOSE GEOBOX GABION BASKET?

- Manufactured for an expected working life of up to 120 years, ensuring long-term durability and performance
- High-grade polymer-coated wire mesh provides exceptional corrosion resistance and structural strength, ensuring reliable performance in high corrosive environments
- Designed to accommodate differential settlement and maintaining structural performance even under challenging ground conditions
- By minimising material use, gabions provide a cost-effective solution when compared to traditional systems such as mass gravity walls or grouted rock structures
- Gabion walls can be built up to 5-10 metres in height, with options for varied facing styles to suit both structural and aesthetic requirements
- Tested to ensure compliance with international quality standards

APPLICATIONS

- Retaining walls
- Disaster prevention & recovery
- Erosion control
- Flood protection
- Revetments

FUNCTIONS

EROSION & SEDIMENT CONTROL

RETAINING

GEOBOX GABION BASKET RANGE AND ACCESSORIES

Code	Description	Width	Depth	Height
GZNAL827-1511	1.5x1x1 Zn-Al 8/2.7	1.5m	1m	1m
GZNAL827-215	2x1x0.5 Zn-Al 8/2.7	2m	1m	0.5m
GZNAL827-211	2x1x0.5 Zn-Al 8/2.7	2m	1m	0.5m
GZNALPVC827	1.5x1x1 Zn-Al / PVC 8/2.7	1.5m	1m	1m
GZNALPVC827	2x1x0.5 Zn-Al / PVC 8/2.7	2m	1m	0.5m
GZNALPVC827	2x1x1 Zn-Al / PVC 8/2.7	2m	1m	1m

Code	Description	Length	Weight	Quantity
WZNALPVCB	Geofabrics Zn-Al PVC Bracing Wire 1.0m	1m		
WZNALPVCT	Geofabrics Zn-Al PVC Tie Wire 25Kg Coil		25kg	
RINGSSS	Stainless Steel Rings to Suit PVC			1600/BOX

Retains earth

Up to **120** year service life

High corrosion resistance

SCAN FOR MORE DETAILS

ROCK MATTRESSES DESIGNED TO RESIST MOVEMENT IN HIGH-FLOW CONDITIONS

GEOFABRICS GEOMATTRESS ROCK MATTRESS

50%
more effective
than rip-rap

Provides effective
erosion control

Geofabrics Geomattress® rock mattresses are constructed with double-twisted steel wire mesh filled with rock to form thin, flexible cages designed to resist movement in high-flow conditions.

The structure is divided into cells which prevent displacement and enhance stability. Ideal for hydraulic applications, Geomattress units are widely used for weirs, scour protection along riverbanks and the stabilisation of embankments and channel linings. They are engineered to withstand water velocities exceeding 5-6 m/sec over extended periods.

WHY CHOOSE GEOMATTRESS ROCK MATTRESS?

- Constructed with internal diaphragms integrated into a single continuous mesh panel to contain and stabilise rock movement under high shear stress
- Proven to be over 50 per cent more effective than rip-rap in high shear stress conditions
- High permeability promotes sediment and seed capture, supporting healthier, more diverse ecosystems
- Flexible and adaptable to natural soil profiles; can be shaped to support targeted ecological regeneration

APPLICATIONS

- Hydraulic engineering & structures
- Embankments
- Erosion control
- Disaster prevention & recovery
- Flood protection

FUNCTIONS

EROSION CONTROL

GEOMATTRESS ROCK MATTRESS RANGE AND ACCESSORIES

Code	Description	Length	Width	Depth
MZNALPVC620-6217KIT	6x2x0.17 Zn-Al / PVC 6/2.0	6m	2m	0.17m
MZNALPVC620-6223KIT	6x2x0.23 Zn-Al / PVC 6/2.0	6m	2m	0.23m
MZNALPVC620-6230KIT	6x2x0.30 Zn-Al / PVC 6/2.0	6m	2m	0.3m
MZNALPVC620-62LID	6x2 Zn-Al / PVC 6/2.0 Lid	6m	2m	-

Code	Description	Length	Width	Quantity
WZNALPVCB	Geofabrics Zn-Al PVC Bracing Wire 1.0m	1m		
WZNALPVCT	Geofabrics Zn-Al PVC Tie Wire 25Kg Coil		25kg	
RINGSSS	Stainless Steel Rings to Suit PVC			1600/BOX

Supports
sediment and
ecosystem growth

Resists
rock
movement
under stress

Permanent
hydraulic protection

SCAN FOR
MORE DETAILS

ENGINEERED FOR SLOPE STABILISATION & LONG-TERM ROCKFALL PROTECTION

GEOFABRICS ROCKFALL MESH

Conforms
to any slope & rock profiles

Supports
vegetation

SCAN FOR MORE DETAILS

Rockfall Mesh or drapery systems are made from double-twisted steel wire mesh. The nets are designed to control rockfall movement by guiding falling debris to a collection point at the toe of the slope to protect structures from damage.

WHY CHOOSE ROCKFALL MESH?

- Double twist steel wire mesh provides flexibility in all directions and will not unravel, even in the event of some wire breakage
- Proven solution for 60+ years, offering a robust and cost-effective rockfall protection system
- Versatile system to match existing slope and rock profiles
- Different levels of coating protection for durability, wires are coated with Zn/Al and can be additionally polymer coating
- Promotes the regrowth of vegetation

APPLICATIONS

- Protect roads, buildings and other structures located directly at the toe of man-made cuttings or natural cliffs

FUNCTIONS

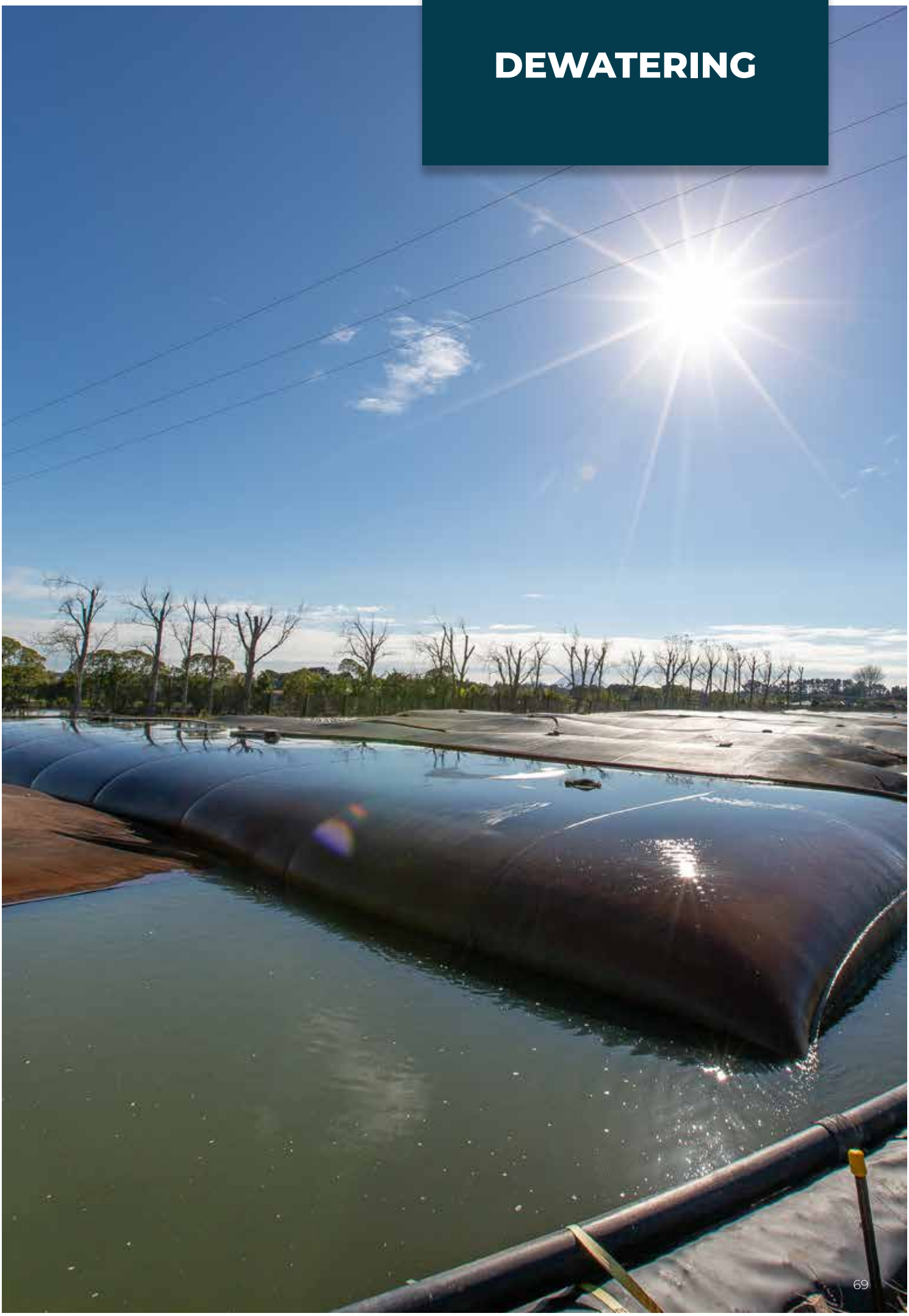
PROTECTION

STABILISATION

ROCKFALL MESH RANGE

Code	Description	Weight
RFNGM	Rockfall Mesh Zn/Al (50 x 2)	142.5kg
RFNPVC	Rockfall Mesh Zn/Al-PVC (50 x 2)	169.5kg

DEWATERING



CONTAINMENT OF SLUDGE AND SEDIMENT

GEOTUBE DEWATERING CONTAINER

GEOTUBE® dewatering container is designed for dewatering high moisture content sludge and sediment.

Sludge is treated with specialist polymers and pumped into containers, leaving clear effluent water to drain and for the solid material to be retained. The full containers are disposed of at a landfill or the solids removed and land-applied.

WHY CHOOSE GEOTUBE?

- High flow rate allows residual materials to dewater, whilst containing solids
- Simple to use as there are no mechanical or moving parts that could breakdown or wear and tear
- Custom fabricated with seaming techniques that withstand pressure during pumping operations
- The effluent is filtered water that can be reused or returned to native waterways without further treatment

APPLICATIONS

- Dewatering to remove coal sludge, mine tailings and other minerals

FUNCTIONS

CONTAINMENT

Efficient
dewatering treatment for sludge

SCAN FOR MORE DETAILS

THE GEOFABRICS DIFFERENCE

Geofabrics work to protect, contain and secure the physical environment using smart geotextiles and geosynthetic products.

With over 35 years of experience, we pride ourselves on providing unrivalled service to our customers. We can recommend the best geosynthetic products to achieve the objectives of your project and ensure it's available when you need it.

TECHNICAL SUPPORT	· National team of qualified engineers available to help you to optimise the use of our products and explore alternative techniques and materials that may offer you improved handling and / or cost benefits · Laboratory testing and evaluation of products
LOCAL DISTRIBUTION	· Sales branches throughout New Zealand with large warehouse facility in Auckland and Christchurch, and depots in Silverdale, Paraparaumu and Hastings · Ensures prompt and reliable supply from local stock holdings
PRODUCT RANGE	· Complete geosynthetic and wire mesh range across various sectors including infrastructure, mining, coastal, waste and water · Offers the convenience of having erosion and sediment control product supply stored on-site with containers that save money and time
ENVIRONMENTAL COMMITMENT	· Committed to sustainability and seeking innovative ways that reduce carbon emissions · Increase year-on-year of recycled material used in products and packaging · Only geosynthetic manufacturer in Australasia to publish independently verified Environmental Product Declarations (EPDs) for Megaflo Green drain pipe and Bidim Green non-woven geotextile
QUALITY & REPUTATION	· Market leading brands across our range of product solutions · ISO 9001 accredited management systems in manufacturing
INNOVATION & EDUCATION	· Committed to educating the industry about the use of geosynthetics by conducting Geofabrics Academy sessions, in-house workshops and lectures at Universities
SUPPORT TOOLS	· Wide range of support tools, ranging from design software to installation equipment and literature
COMMERCIAL	· We maintain substantial inventory to meet your project requirements · We carry comprehensive insurance policies, including product and public liability cover, professional indemnity, and vehicle and marine policies
INDUSTRY ASSOCIATIONS & ACCREDIATIONS	· Civil Contractors New Zealand · WasteMinZ · Water New Zealand · IECA · ISC (Sustainability) · ISO 9001 · GAILAP · NATA · EPD Hub

GEOFABRICS IN NEW ZEALAND

At Geofabrics, we pride ourselves on providing unrivalled service to our customers. We can recommend the best geosynthetic product to achieve the objectives of your project and ensure it's available when you need it.

Over 35 years of experience in New Zealand allows our technical staff to provide practical support, based on local conditions. We have supported the infrastructure sector on significant projects such as the Christchurch Gondola. We have branches throughout Australia, New Zealand, Papua New Guinea and the Pacific so can deliver product where you need it, when you need it, while providing local expertise to support your project.

With a view to the future, we are committed to improving the sustainability of our business by reducing waste to landfill, lowering our carbon emissions and investing in our people.

VISIT **GEOFABRICS.CO.NZ** OR CALL 0800 60 60 20

GEOFABRICS®
Sustainable solutions