

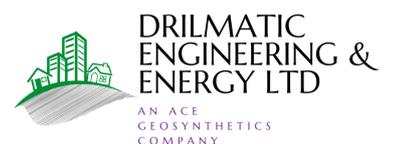


APRIL 2020

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CORPORATE PROFILE

GEOSYNTHETICS TECHNOLOGY
TO POWER AFRICA'S
SUSTAINABILITY STORY



"OUR AMBITION IS TO DRIVE A HIGH-PERFORMANCE CULTURE, PUTTING INNOVATIVE GEOSYNTHETIC TECHNOLOGY AT THE HEART OF THE DRILMATIC BRAND"

A STATEMENT FROM THE CEO OF DRILMATIC ENGINEERING & ENERGY LTD

Our ambition is to drive a high-performance culture, putting innovative geosynthetic technology at the heart of the Drilmatic Brand. We focus on remaining true to our values and our purpose: to help businesses deploy complex environmentally sustainable projects across Sub-Saharan Africa successfully. We are especially excited about the partnership with ACE Geosynthetics, which represents an opportunity for Africa, and the Sub-Saharan region especially, to explore previously uncharted territory with vigor. We are looking forward to combining the global expertise ACE Geosynthetics brings to the table, and look forward to passing on the benefits to our valued clients.



Stephen Kiarie
Chief Executive Officer, Drilmatic Engineering & Energy Ltd

"THIS NEW TECHNOLOGY IS AN ESPECIALLY OUTSTANDING WIN FOR THE AFRICAN CONTINENT"

A STATEMENT FROM THE MANAGING DIRECTOR OF ACE GEOSYNTHETICS

This new technology is an especially outstanding win for the African continent, and for the future of sustainable engineering. Coupled with our valued partners, Drilmatic, we are excited to walk this journey with you.



Frankie Wang
Chairman ACE Geosynthetics



ABOUT US

Drilmatic Engineering & Energy Ltd is a Kenyan incorporated company. The company's aim is to be a regional leading EPC (Engineering, Procurement, and Construction) service provider with expert [TLI] knowledge and experience in providing innovative geosynthetic related products and services, project management services, construction management services to various industries, including;

- Earthwork Construction
- Roadway and Railway Construction
- Environmental Protection
- Marine and Coastal Structures Construction
- Riverbank and Channel Protection
- Mining Industries with a focus on Oil & Gas.

We are an emerging market leader in the design, development and technical support of high performance geosynthetic systems and solutions for use in a wide range civil engineering, environmental and sustainable building projects.

Based in Nairobi Kenya with an operational footprint in **10 other** countries in Sub-Saharan Africa, Drilmatic is developing a reputation for innovation in high quality geosynthetics, backed by our partnership with a Global Geosynthetics giant in Ace Geosynthetics.

Recently, Drilmatic joined hands with Ace Geosynthetics, a global leader with projects in 70+ countries who specialise in the manufacture and supply of a wide range of quality geosynthetic products for various engineering fields with key products such as:

- Geotextiles
- Geogrids
- Geotextile tubes
- Geotechnical, transportation solutions
- Environmental protection solutions
- Hydraulic solutions

MEET OUR TEAM

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Stephen Kiarie:
Chief Executive Officer,
DEEL



Victor Ibrahim,
Africa Regional Director,
ACE Geosynthetics



Amie Wang
Director
ACE Geosynthetics



Chege Kiragu,
Chief Operations Officer ,
DEEL



Mara St Clair:
Principal Technical Manager
DEEL



Eric Ngigi
Chief Finance Officer
DEEL

MISSION

We aim to provide eco-friendly, reliable and cost effective solutions to everyday engineering challenges through professional and innovative approaches

VISION

To be the regional leader in providing eco-friendly geosynthetic engineering designs, procurement and construction support services.

CORE VALUES

Sustainability

The fundamental tenet of our business is to protect the environment by ensuring the avoidance of the depletion of natural resources in order to maintain an ecological balance

Safety

We ensure that our operations are carried out under conditions that are least likely to cause danger, risks or injury to all involved parties

Innovation

Our business is centred on the idea of continuous never ending innovation with a heavy focus on developing high end prototypes that speed up the implementation of high quality solutions.

Integrity

We uphold integrity by adopting the highest ethical standards. Our continued success is based on sustainable relationships that keep our business growing.

Client Satisfaction

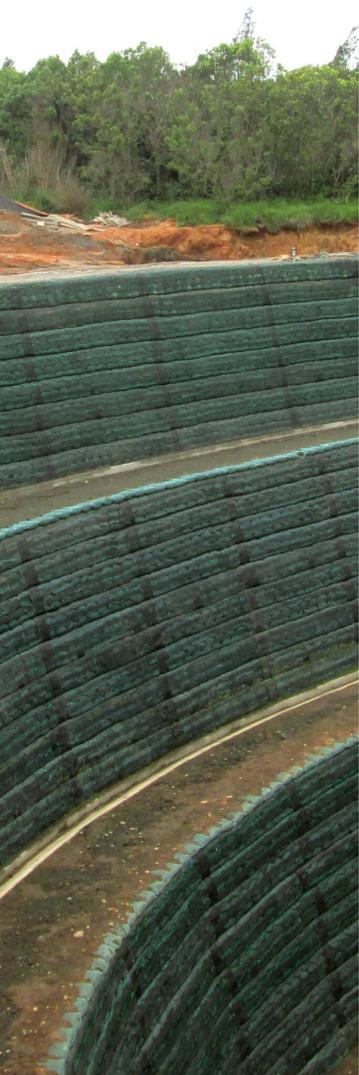
We dedicate ourselves to exceeding our clients' expectations by committing to our core values as we strive for superiority in our chosen field.

Professionalism

We ensure excellence, competency and dependability in our projects. We believe our projects are a result of conducting ourselves in a professional manner.

Teamwork

We take pride in being a company that employees take ownership, in tandem with encouraging growth of ideas through communication, fostering partnerships, cooperation and building trust.



OUR EXPERTISE

Our experienced and well trained technical team, fully conversant in all products from geotextiles, geogrids, geomembranes, erosion control mats and gabions are always available to discuss the technical merits of our products and to advise which geosynthetic materials would be most suited to your particular application.

Our Engineering Department (Staffed by fully qualified team of project managers and technical engineers) has been created to give you free technical support and to provide economical solutions involving our range of products.

Drilmatic is a geosynthetics company commitment to the highest standard evidenced by our partner's (Ace Geosynthetics) track record as they have previously been the winner of the 2009, 2011, 2013, 2015, 2016, 2017 and 2019 International Achievement Award from Industrial Fabrics Association International.

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2009



2011



2013



2015



2016

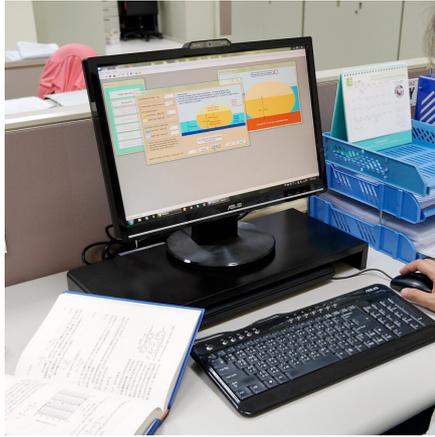


2017



2019

OUR SERVICES



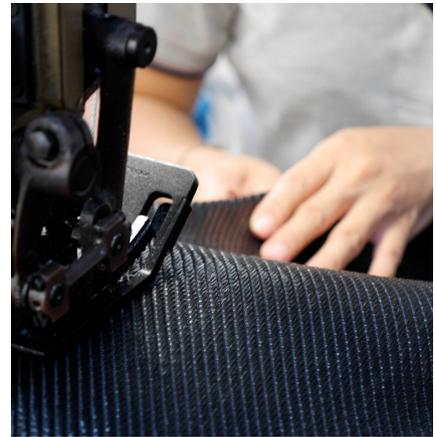
DESIGN AND ENGINEERING



GEOSYNTHETICS MATERIALS MANUFACTURERS



PROJECT MANAGEMENT



CUSTOMISED GEOSYNTHETIC FABRICATION



CONSTRUCTION AND SUPPORT



EQUIPMENT LEASING

OUR PRESENCE IN THE REGION



We are part of the Africa rising reality and we honour this commitment with our continued investment in creating the right partnerships and innovative technologies to deliver truly world class geosynthetic solutions that empower our customers across the African great lakes region.

Kenya | Uganda | Tanzania | Rwanda | Burundi
DR Congo | Ethiopia | South Sudan | Mozambique
Madagascar | Mauritius

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INNOVATION 5 WAYS

1

ACE GEOSYNTHETICS

We have partnered with ACE Geosynthetics, a Global leader in the space

2

PROJECT DESIGN & MANAGEMENT INTEGRATION

Use of software such as Primavera, MS Project, ReSSA, MSEW, Reslope, Stedwin, GeoCoPS, GeoTuSAS to guide our technical team to deploy smarter, faster and within time

3

CAPACITY & EXPERIENCE

With a team of engineers, project managers across the world, we have the right capacity to deploy your project successfully

4

PROJECT FINANCING

innovations in financing of geosynthetic projects

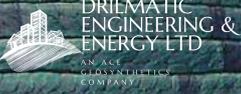
5

BIG DATA & IOT IN GEOSYNTHETICS

Innovations in IOT throughout our implementation process will give us an edge in terms empowering our clients to make neck break speed decisions that can fundamentally change the outlook of projects

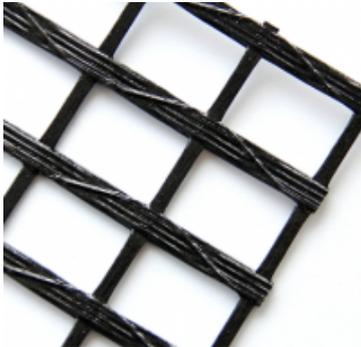


THE PRODUCT PORTFOLIO



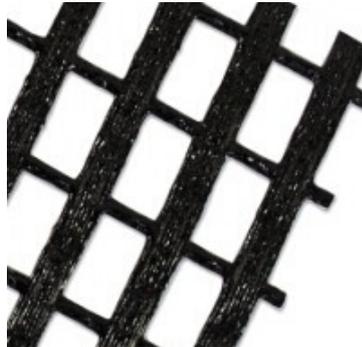
GEOGRIDS

Geogrids are high tension polymeric meshes mainly used for soil reinforcement applications, which can provide high tensile strengths soils lack of. ACEGrid®, the registered trademark of ACE Geosynthetics for all its geogrid products, are offered in many types with different fabrication methods, materials, configurations, and coatings for diverse engineering requirements in the applications of Mechanically Stabilized Earth Walls (MSE), Reinforced Soil Slopes (RSS), basal reinforcement, road construction, mining, etc.



ACEGRID® GG

Flexible Woven PET Geogrids for Soil Reinforcement



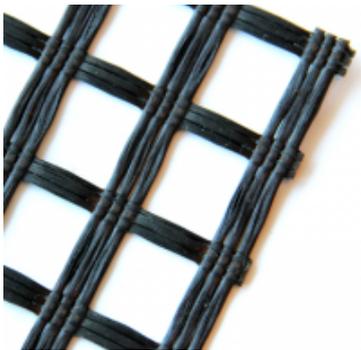
ACEGRID® FR

Flame-Retardant Polymer Grids for Mining Protection



ACEGRID® GN

Woven PET Geogrids with Durable and Environmentally Friendly Coating for Soil Reinforcement



ACEGRID® GA

Fiberglass Geogrids coated with Bitumen for Road Asphalt Reinforcement



ACEGRID® GDP

Extruded Biaxial PP Geogrids for Base Reinforcement and Subgrade Stabilization



ACEGRID® GDE

Extruded Uniaxial HDPE Geogrids for Soil Reinforcement

Geotextiles are permeable fabrics mainly used for providing functions of separation, filtration, reinforcement, protection or drainage in civil engineering applications. ACETEX®, the registered trademark of ACE Geosynthetics for all its geotextile products, are offered with different materials and wide ranges of properties for diverse requirements from application of base reinforcement, subgrade stabilization, marine structure construction, etc.



ACETEX® PET

High-Strength PET Woven Geotextiles for Soil Reinforcement



ACETEX® PP

Flame-Retardant Polymer Grids for Mining Protection



ACETEX® ES

High-Strength PP Woven Geotextiles for Subgrade Stabilization and Base Reinforcement



ACETEX® NW

Needle-Punched Nonwoven Geotextiles with or without Thermally Bonded Surface



ACETEX® SL

PP Woven Geotextiles for Separation & Stabilization

EROSION AND SEDIMENT CONTROL

To solve soil erosion and sediment dispersion problems in various site conditions, ACE Geosynthetics offers a series of engineered geosynthetic products including geotextile mattresses, turf reinforcement mats, geocells, flexible concrete revetments and silt curtains. These products have high performance, high installation efficiency, and can reduce the usage of costly materials, thus performing advantages in all safety, environmental and economic aspects.



ACEFORMER™

ACEFormer™ are two-layer and high-strength geotextile mattresses grouted with cement mortar or concrete for coastal erosion control, channel construction and pipeline protection



ACEMAT™ R

Three-Dimensional and High-Strength Woven Mats for Erosion Control



ACELOOPTEX™

ACELoopTex™ are fabrics consisted of polypropylene base geotextiles and numerous loops standing on it



ACECURTAIN™

Silt Curtains for Waterborne Silt and Sediment Control



ACECELL™

HDPE Geocells (Cellular Confinement System) for Soil Stabilization

GEOTEXTILE BAGS, TUBES AND CONTAINERS

Fabricated by multiple pieces of highly engineered geotextiles (ACETex®) and robust stitching, these geotextile containers in multi-dimensions can be formed, including small-scale geotextile bags (ACEBag™), medium-sized geotextile tubes (ACETube®), and large-scale geotextiles container (ACEContainer™). These products can be widely applied for coastal protection, sludge treatment, dredging to obtain significant engineering, economic and ecological benefits.



**ACETUBE® - HYDRAULIC
STRUCTURES**

ACETube® geotextile tubes are monolithic-tubular containers fabricated by multiple pieces of highly engineered synthetic woven fabrics



**ACETUBE® - DEWATERING
SYSTEM**

ACETube® dewatering tubes are tubular-shaped containers fabricated by multiple pieces of engineered woven fabrics with excellent filtration characteristics.



ACECONTAINER™

ACEContainer™ are monolithic geotextile containers designed to fit in split barge and pour in sediment sand or other ground materials to form a bulk for constructing hydraulic structures, filling holes or dredging.



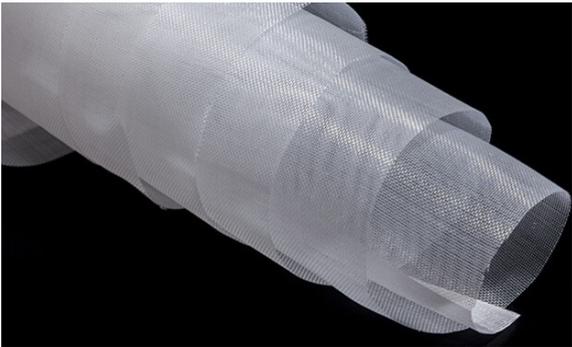
ACEBAG™

ACEBag™ are highly robust geotextile bags(also known as geobags, sand bags or geotextile sand containers) for forming temporary or permanent structures in hydraulic and geotechnical engineering, erosion control and facility protection



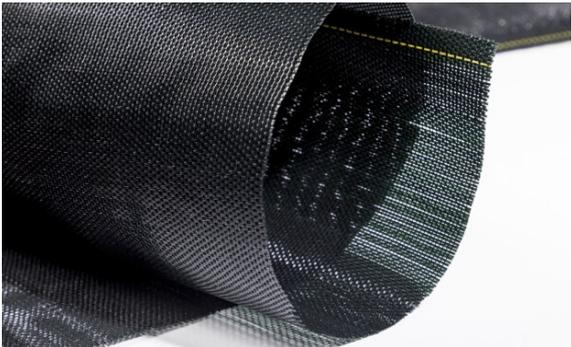
AGRICULTURE

High quality and durable polymeric netting products are provided from ACE Geosynthetics for crop protection and fish farming. The nettings used in plant farms include woven and knitted shading nets, insect nets, anti-hail nets and shade cloth. And the nettings used in fish farms are high strength meshes coated with UV-stabilized and anti-algae polymers for forming floating fish cages/ pens.



INSECT NET

Insect nets are fabricated with polyethylene materials, generally applied in greenhouse planting or protective shelter. The durable, UV resistant and perfect mesh size insect nets can effectively protect crops from damages caused by insects and are helpful to produce nutritious and high-value crops



SHADE CLOTH

Shade Cloths are fabricated with polypropylene materials, generally applied in shading shelter, windbreak and fence. The lightweight, durable and great UV resistant shade-cloth nets can decrease heat build-up, wind speed and UV damage to greenhouse plants efficiently.



ANTI-HAIL NET

Anti-hail nets are fabricated with polyethylene materials, generally applied in protective shelter. The high-density and UV resistant anti-hail nets can protect crops from the damage caused by the hits of hail and bird

DRAINAGE AND LINING

The passage of water or other liquids is crucial for most civil structures, such as retaining walls, roads, landfills, reservoirs, canals, dams and banks. For the purpose of containment, geosynthetic clay liners (ACELiner™) and geomembranes (ACEMembrane™) are offered to be impervious liners. And for the purpose of drainage, several types of geonets (ACEDrain™) are provided for draining off liquids without soil loss.



ACEDRAIN™ G

ACEDrain™ G geonets have been extensively used in civil structures such as embankment, landfill and roadway for drainage and separation requirements



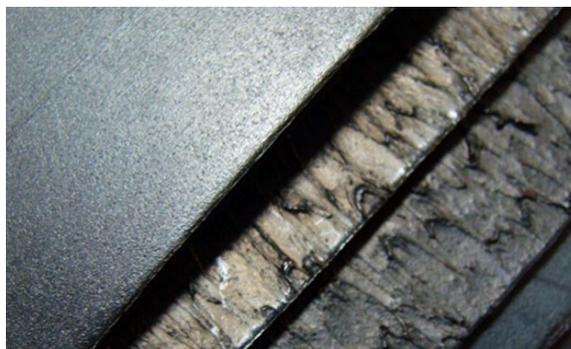
ACEDRAIN™ S

ACEDrain™ S is a drainage geocomposite consisting of a planar core wrapped with a gray polyester nonwoven geotextile



ACELINER™

ACELiner™ Geosynthetic Clay Liners (GCLs) are hydraulic barriers consisting of three or four layers of materials. They can be used for both barrier and containment requirements, such as landfill liners and caps, channel liners and ponds, etc.



ACEMEMBRANE™

ACEMembrane™ geomembranes offer sufficient tensile strength and high resistance to puncture, tear, cracking, UV and chemicals with relatively small thicknesses



+

GEOCOMPOSITES

Geocomposite is a denomination for products which go through the process of combining two or more different geosynthetic materials, such as geogrid, geotextile, geomembrane and geonet to provide the multifunction of the composites. ACECompo™, the registered trademark of ACE Geosynthetics for its geocomposite products, is offered with different materials and configurations mainly for the applications of road construction and pavement rehabilitation.



ACECOMPO™ GB

ACECompo™ GB are geocomposites constructed by a high-tenacity fiberglass grid, a lightweight polyester nonwoven geotextile and bitumen coating which can provide a good bonding property with asphalt layers



ACECOMPO™ GC

ACECompo™ GC geocomposites are highly flexible with bituminous coating to adhere to asphalt layers or base layers, so the laying of ACECompo™ GC can be very easy and rapid



ACECOMPO™ GS

ACECompo™ GS is a geocomposite made of fiberglass yarns and a layer of needle-punched polyester nonwoven geotextile, and is usually used in the reinforcement of road base and pavement layers



ACECOMPO™ PETB

They are geocomposites comprised of unilateral or bilateral polyester yarns incorporated into a polypropylene or polyester needle-punched nonwoven geotextiles, which are up to 200 kN/m in uniaxial direction and 100kN/m in biaxial directions, for performing the function of reinforcement,



SOLUTION APPLICATIONS

SUMMARY OF SOLUTIONS BY SPECIALITY AREA



Environmental solutions



- Dredging
- De-watering treatment
- Landfill Construction

Geotechnical solutions



- Ground Improvement
- Reinforced Walls & Slopes
- Slope erosion control
- Landscaping

Transportation solutions



- Sub-grade stabilisation
- Pavement stabilisation
- Base reinforcement
- Embankment construction

Hydraulic solutions



- Beach nourishment
- Marine structures construction
- Coastal Structures Protection
- Channel/ Riverbank Protection
- Detention Basis



ROAD DESIGN & CONSTRUCTION SOLUTIONS

Bridges design & construction - Geosynthetics drastically cuts costs and construction time in designing and erecting bridges. The reinforced earth retains the embankment adjacent to the bridge while supporting the superstructure and traffic loads,

Sub-grade Stabilisation - Geotextile fabric separates the base courses of roadways from the native sub-grade layer, while simultaneously enhancing its bearing capacity

Base Reinforcement - Materials embedded in between the sub layers of roads evenly distribute traffic loads and constrain deformation throughout the base courses to strengthen the entire pavement system and extend the system lifespan.

Pavement improvement - Applying the bitumen coated glass fibre from Drilmatic to the flexible asphalt layer of pavements, curbs the formation of these cracks by dispersing the stresses from vehicular loads horizontally and confining the expansion of soil during annual fluctuations in temperatures.

Road widening - Geosynthetics seamlessly stabilise and reinforce the pavement and ground adjacent to preexisting roads for economical, durable roadways in any environment



WATERFRONT PROTECTION

Marine and Riverbank construction and protection

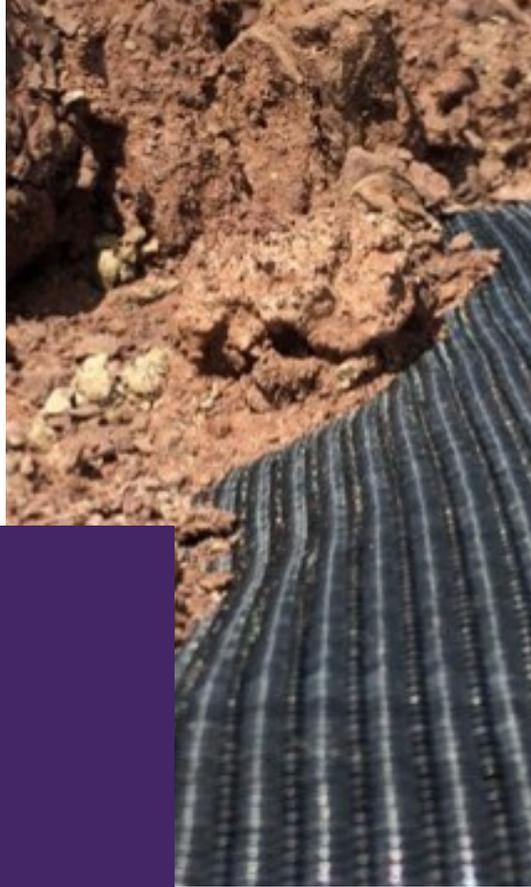
Seawalls and Bulkhead - Seawalls, as wave-proof structures built along the shoreline, are important hydraulic structures to withstand waves, tides or surges for protection of inhabited land and people

Breakwaters - Breakwaters restore and protect shorelines by interrupting wave energy, and allowing sand to accumulate along the coast.

Groynes and Jetties - Maintaining or nourishing depleted beach levels is efficiently achieved by installing ACETube® perpendicular to shorelines to create beach remediating groynes or jetties.

Revetments - Revetment structures are built to protect slopes, banks or cliffs against erosion. Geosynthetics have multi functional purposes in coastal revetment construction including toe scour protection, filtration, drainage, and separation with revetment designs

Pier Scour Protectors - Any structures installed in marine conditions are eventually exposed and weakened by the continuous effects of scour at its foundation.



EARTH STABILISATION SOLUTIONS

Slope protection - Our quick and reliable earth stabilisation systems incorporate Geogrids and Geotextiles which are suitable for supporting and maintaining almost any slope geometry.

Basal reinforcement - Geotextiles and Geogrids enhance the bearing capacity of unstable foundations and enables swift construction without tedious soil treatments or exhaustive soil replacements.

Slope erosion control - Enhance slope filtration, stabilisation and promote vegetation growth with our series of erosion control geosynthetic fabrics for superior soil and rock slope erosion resistance.

Flood Detention - Wrapped-around reinforced retaining wall constructed with geogrids is used to build the detention basin, which can directly employ in-situ excavated soils; moreover due to its easy installation, the construction cost and time can be greatly reduced, and reach the balance of earthwork

Dam construction & maintenance - A wide variety of geosynthetics in virtually all types of dams is discussed and examples given of functions such as filtration, transmission, erosion control, reinforcement, waterproofing and interface function



EXPLORATION SOLUTIONS



Longwall Mine Strata Support - Longwall mining integrates hydraulic ceiling supports to prevent caving and control subsidence of the strata above tunnel mines however, smaller rock fragments slip through openings between these supports jeopardising mine workers lives and disrupting the flow of material extraction.

Rockfall Prevention Embankment - Flexible, energy absorbent mechanically stabilised earth embankments constructed with specialised geosynthetic materials installed at the foot of slopes impede rockfall events and prevent fallen rocks from obstructing roadways and other transportation paths to mine infrastructures.

Bulk Materials Packaging and Transport - The high-strength geotextile fabric containment system collects loose materials from crusher heads and other conveyor arrangements to simplify the handling and transport of mine ores or coal.

Tailing Dewatering - Mineral heavy mine tailings are often challenging to refine and transport for disposal. Our dewatering structures separate the wastewater constituent of the tailings sludge from the fine solid particles suspended within it.



OTHER GEOSYNTHETIC SOLUTIONS

Sludge Treatment containment - Geosynthetics are ideal for sludge treatment procedures. The challenges involved with the management of sludge and waste materials from collection to treatment, dewatering and disposal which can be truncated with the customisation sludge dewatering system

Pipeline Sleepers - The weight of pipelines can be its own enemy especially when the pipeline traverses poor soil conditions. This issue is solved by implementing geosynthetic supports beneath the pipeline that have the added benefit of impeding corrosion and securing pipeline positions.

Cofferdams - The geotextile tubes protect against water forces thrashing along the exterior of cofferdams and prevent water from seeping into construction sites below the average water level. In addition, the almost watertight structures retain back-fills placed along coastlines to reclaim land from the sea.

Sediment Dredging - Dredging the sediment accumulated along the beds of watercourses clears and deepens paths for ships. The dredged material is effortlessly stored geosynthetic solutions then transported to various sites for disposal

www.drilmatic.co.ke



**DRILMATIC
ENGINEERING &
ENERGY LTD**
AN ACE
GEOSYNTHETICS
COMPANY

LET'S CONNECT

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