Geosynthetic Products for Geotechnical and Environmental Applications
TeMa South Africa specialises in the supply and distribution of a comprehensive range of Geosynthetics solutions including:

- Nonwoven and woven geotextiles
- Geonets
- Geogrid Reinforcement
- Geosynthetic Clay Liners (GCLs)
- Geocells
- Erosion Control Systems
- Composite Drainage Modules
- Subsoil Drainage Pipe & Equipment
- Rock-Filled Gabions and Mattresses
- Asphalt Reinforcement
- Cuspated Drainage Sheets
- Geosynthetic Sand Containers (GSCs)
- Geomembrane Liners
- Geobags & Tubes
- Retaining Wall and Slope Stability Systems
- Dewatering Bags

Our products have a proven track record of having contributed technically and economically beneficial solutions in areas such as:

- Roads & Highways
- Railways
- Tunnels
- Landfills
- Contaminated Sites
- Reinforced Soil Slopes
- Sub-Surface Drainage
- Artificial Sports Fields
- Landscaping
- Erosion Control
- Rock Slope Stabilisation
- Artificial Basins & Ponds
- Dams & Bunds
- Piled Embankments

We are proud to have an exemplary track record servicing the construction and engineering industries of the following sectors:

- Civil Infrastructure
- Environmental
- Mining
- Architectural
- Landscaping
- General Building
- Domestic Use
TeMa Geo Solutions

Geosynthetic products for geotechnical and environmental applications

The TeMa Geo range of geosynthetic products are the result of an intense relationship with construction industry professionals, contracting companies, distributors and customers.

Our experienced team collaborates with independent research organisations, laboratories and universities to develop high-performance product solutions in the field of geotechnical and environmental engineering within the civil infrastructure sector.

TeMa is constantly striving to improve both its products and the services offered to support our customers whether that be logistically, technically or commercially.

All TeMa products are manufactured under ISO 9001 Quality Assurance protocols giving our customers the confidence in performance and durability demanded of such products.

This brochure illustrates the range of TeMa Geo products available for functions such as soil reinforcement, erosion control, drainage & asphalt pavement remediation and hydraulics.
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</tbody>
</table>
X-GRID is a knitted geogrid made from high tenacity polyester (PET) yarns, sealed with a polymeric coating to ensure long term performance and durability.

X-GRID can be produced as either uniaxial, biaxial or as a composite product with a separation geotextile attached. All formats can be produced in a variety of strengths.

X-GRID is the first flexible polyester (PET) geogrid range to offer a low strain geogrid product with nominal strains at UTS as low as 7.5%.

Some of the X-GRID product range are included in the BBA HAPAS Certificate No. 16/H253. This certificate contains all relevant design partial factors.

**Function**
- Soil reinforcement

**Types**
- PET-coated or uncoated

**Strength Range**
- 5 to 1,000 kN/m

**Roll Widths**
- 5.0 to 5.3 m

**Applications**
- Reinforced soil structures, stabilisation, base reinforcement, landfill, mining

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X-GRID offers a wide range of biaxial grid products for the asphalt reinforcement sector with products being manufactured from both fibreglass or polyester (PET).

These products can also all be produced with either a lightweight polypropylene (PP) geotextile backing to assist with site installation, or with a bitumen absorbent geotextile for the formation of a SAMI layer.

Some of the X-GRID asphalt reinforcement product range are produced with a bituminous coating to provide enhanced asphalt bond performance.

**Function**
- Asphalt reinforcement

**Types**
- FG, PET

**Strength Range**
- 50, 100, 110, 160 kN/m

**Roll Widths**
- 5.0 to 5.4 m

**Applications**
- Reinforcing asphalt wearing courses, mitigation of reflective cracking & concrete slab overlays
X-GRID AM is a composite formed from our K-MAT extruded polypropylene (PP) monofilament entangled mat and our polyester (PET) X-Grid geogrids.

This product provides a reinforced geomat which is suited to use in earthworks and landfills for both the retention of inclined granular drainage layers over membranes, or the veneer stability of topsoil layers on steep slopes or landfill capping systems.

Additionally the use of X-GRID AM for channels and wet slopes enhances the shear resistance of the vegetated surfaces against hydraulic erosion.

A wide range of strengths and mat thicknesses are available to meet the diverse application uses and specifications.

G-TEX W is a range of high strength woven polyester (PET) reinforcement geotextiles. Available as both uniaxial and biaxial (to 200kN) formats.

The primary use of these types of product is to provide a separation and strengthening functions in both temporary working platforms and permanent reinforcement applications.

Typically used to provide tensile strength above existing soft ground to facilitate the use of ground improvement techniques such as PVD’s or to form a load transfer platform over piled foundations.

In both these application areas the use of G TEX W can allow an increased speed of construction in soft ground environments where traditional hold periods can be greatly reduced or eliminated completely.
**K-MAT RF METAL**

*K-MAT RF METAL* is a composite product formed from an extruded polypropylene (PP) monofilament entangled mat with a flexible twisted steel mesh.

The steel mesh has the option of being galvanised or with an additional PVC coating. Product strength varies according to the steel mesh used.

This product is often used in conjunction with rock slope stabilisation or soil nailed slopes and cuttings. The 3-D geomat helps to retain small fragments of rock and can also support the subsequent growth of vegetation on slopes.

Alternative colour options and enhanced UV resistance of the geomat are also available to extend the product durability and service life.

**Function**
- Erosion control

**Wire Mesh Specifications**
- 6 x 8 or 8 x 10 mesh size
- Al Zn + PVC 2.2 to 2.7 mm dia

**Colours**
- Standard Black or Green

**Standard Roll Size**
- 2.0 x 25 m

**Applications**
- Rock slope stabilisation, surface erosion control, soil nailed systems

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**K-MAT**

*K-MAT* is a 3-D geomat formed by the extrusion of polypropylene (PP) monofilaments to form an entangled mat, with high void ratios.

The multi-directional structure of the mat provides a highly compatible matrix for the root growth of surface vegetation, thereby enhancing the resistance to both wind and erosive hydraulic shear forces.

*K-MAT* is available in a range of colours, thicknesses, strengths and densities to suit the most demanding of environments and specifications.

**Function**
- Erosion control

**Types**
- Super L, Mini L, L and HP

**Nominal Thickness**
- 10, 17, 20 mm

**Roll Widths**
- 2 or 4 m

**Applications**
- Erosion control mat for channels, steep slopes and landscaping
**MD Drain** is a new TeMa Geo drainage product developed for very high load applications, with a working compressive strength capacity of up to 1000 kPa.

The micro core structure is formed from a high density of HDPE dimples.

Without any geotextiles this core can function as a leak detection layer between two membranes. With a single or double PP separation geotextile attached it can provide a drainage function in a high compressive load environment.

**Q-DRAIN** is a drainage composite formed from a polypropylene (PP) extruded monofilament entangled mat core with either one or two outer geotextile layers depending on the exact application and performance characteristics.

**Q-DRAIN** can offer an appropriate solution for drainage applications where the compressive loadings are up to 300kPa.

TeMa produces a variety of core weights and thicknesses to meet a wide range of product specifications.

### MD DRAIN

**Function**
- Drainage

**Types**
- Core or with 1 or 2 geotextiles

**Nominal Thickness**
- 5 mm

**Compressive Resistance**
- 600 – 1000 kPa

**Applications**
- Landfills, mines, deep basements, tunnels, capillary break layers

### Q-DRAIN

**Function**
- Drainage

**Types**
- Series C and ZW

**Nominal Thickness**
- 5, 8, 15, 20 mm

**Standard Roll Width**
- 2 or 4 m

**Functions and Applications**
- Landfill capping systems, road drainage trenches, tunnels, railways, reinforced soil structures and capillary break layers
MEMBRANA NERA composites are formed from a cusped HDPE core with or without a single layer polypropylene (PP) separation geotextile attached on top of the cuspatations.

Standard thickness is a nominal 8mm with an operational compressive strength of up to 200kPa.

Typical sub-surface applications are the protection of basement waterproofing systems and the active interception and drainage of ground water away from subterranean structures.

Function
- Drainage, protection

Types
- Core with 1 geotextile

Nominal Thickness
- 8 mm

Roll Widths
- 2.4 m

Applications
- Protection of external basement waterproofing systems.
- Groundwater drainage.

HDD drainage composites are formed from an HDPE cuspated core with a single layer polypropylene (PP) separation geotextile attached to the top of the cuspatations.

The nominal standard thickness is 10mm with operational compressive load capacities of between 350 and 450 kPa, (45 ton/m²), depending on the core density.

Function
- Drainage, protection

Types
- 1085 - 1095 - 10105

Nominal Thickness
- 10 mm

Roll Widths
- 2.4 or 4.8 m

Applications
- Landfills, tunnels, deep basements high overburden pressures
MEMBRANA NERA
MAXISTUD GEO® is a drainage composite formed from an HDPE cusped core with an optional single layer polypropylene (PP) separation geotextile attached to the top of the cuspations.

The moderate compressive resistance of +150 kPa coupled with its high discharge capacity makes it ideal for robust protection and drainage of subterranean structures.

**Function**
- Drainage, protection

**Types**
- Core only or with geotextile

**Nominal Thickness**
- 20 mm

**Roll Widths**
- 2 or 4 m

**Applications**
- Tunnels, basements, railways, walls

MAXISTUD T2® is a drainage and protection composite developed specifically for the high specification tunnelling industry.

Formed from a similar HDPE cusped core to the standard MAXISTUD GEO product but with an adapted blend of raw materials to enhance its performance characteristics in demanding tunnel environments.

Available as either a core or with a single layer fire resistant polypropylene (PP) geotextile attached to the top of the cuspations.

The working compressive resistance of +150 kPa coupled with its high discharge capacity makes it ideal for robust protection and drainage of subterranean structures.

MAXISTUD T2 is rated as Class E Fire Resistance to UNI ISO EN 11925-2.

**Function**
- Tunnel drainage & protection

**Types**
- Core only or with geotextile

**Nominal Thickness**
- 20 mm

**Compressive Resistance**
- 150 kPa

**Applications**
- Tunnel applications, external water intercept, membrane protection or base slab / invert drain
**TeMa TUBE CP** are large format tubes manufactured from a range of technical textiles.

These large volume tubes are hydraulically filled with sand and are typically used for coastal protection works such as the construction of groynes, breakwaters and revetments.

These large tubes are often incorporated as the central cores of maritime structures such as revetments and moles. The sand core is encapsulated within the textile shell and can replace expensive rock fill, offering financial benefits and time savings to projects.

Multiple filling inlets with extendable sleeves and base fixing loops ensure the required fixation and stability during filling.

The strong & environmentally stable technical textiles used ensure long term durability.

**TeMa TUBE DW** are large format tubes manufactured from a range of permeable technical textiles.

These large format dewatering tubes can be used as part of a gravity dewatering process for sludges, natural sediments or industrial by-products. Offering substantial performance and cost benefits over mechanical dewatering processes.

Such tubes are compatible with the use of flocculants and associated mixing equipment during their operational life. Stacking of tubes is also possible.

Input flow rates can be variable depending on the size of the dewatering tube adopted. Multiple filling inlets with extendable sleeves and base fixing loops ensure the necessary stability and flexibility during filling.

**Specification**

**Colours**
- White, black or beige

**Standard Sizes**
- Circumferences to 28m
- Lengths to 50m

**Applications**
- Forming the core of marine structures with encapsulated sand as an alternative to rock fill.
TeMa – PIPE HD

TeMa – PIPE HD is heavy duty, double-wall, corrugated HDPE pipe manufactured with the continuous co-extrusion of both walls.

TeMa – PIPE HD is black on the outside, blue on the inside and supplied in 6m lengths. Pipes are connected by ring-sealed socket connectors and exterior sleeves.

TeMa – PIPE HD is lightweight and easy to handle; easy to lay; durable, versatile and safe and cost effective against alternative steel and concrete equivalents.

TeMa – PIPE HD is abrasive tested in accordance with DIN EN 295-3 and boasts 5-times more resistance than that of cement pipes thus prolonging the tensile strength and increasing the useful lifetime.

TeMa – PIPE HD can be supplied with slots arranged at 60° intervals around the circumference.

<table>
<thead>
<tr>
<th>Types</th>
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<tbody>
<tr>
<td>• Solid-bore &amp; perforated</td>
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<table>
<thead>
<tr>
<th>Diameters (OD)</th>
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<tbody>
<tr>
<td>• 160 – 630 mm</td>
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<tr>
<th>Crush Resistance</th>
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<tbody>
<tr>
<td>• 8 kN/m² (SANS 21138-3)</td>
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<tr>
<th>Presentation</th>
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<tbody>
<tr>
<td>• 6 m lengths</td>
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<tr>
<th>Applications</th>
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</thead>
<tbody>
<tr>
<td>• Sewer &amp; storm water reticulation</td>
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TeMa – PIPE

TeMa – PIPE is a flexible, double-wall, corrugated HDPE pipe manufactured with the continuous co-extrusion of both walls.

TeMa – PIPE is black on the outside, black on the inside and available as solid-bore or perforated (slotted or drilled) options. Pipe sections are joined by means of two-joint couplings.

TeMa – PIPE is complemented by a full range of pipe fittings including short-radius & long-radius, 45° & 90° bends, equal and reducing "T", "Y" and "X" junctions, end caps and inspection/rodding eyes.

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<th>Diameters (OD)</th>
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<tbody>
<tr>
<td>• 50, 75, 110 &amp; 160 mm</td>
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<table>
<thead>
<tr>
<th>Crush Resistance</th>
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<tr>
<td>• 450 N (SANS 61386-26N)</td>
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<table>
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<tr>
<th>Presentation</th>
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<tr>
<td>• 6 m lengths or 50 m coils</td>
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<tr>
<th>Applications</th>
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<tbody>
<tr>
<td>• Subsoil drainage and cable ducting</td>
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</table>
**TeMa – CELL HD**

**Function**
- Erosion control and lateral restraint

**Standard Cell Heights**
- 50, 65, 75, 100, 125, 150 & 200 mm

**Surface Treatments**
- Textured and perforated

**Average Panel Sizes**
- 2.5 – 3.0 m x 10.0 – 15.0 m

**Applications**
- Roads, storm water channels, retaining walls, side slopes.

**TeMa – CELL HD** is a heavy duty geocell system manufactured from HDPE and highly effective in solving a variety of drainage, soil reinforcement and erosion control problems.

**TeMa – CELL HD** is available in a wide range of cell heights, cell densities and panel sizes to suit specific requirements and applications. Side walls are available in textured and perforated options.

**TeMa – CELL HD** is be used in hydraulic erosion control and drainage for flood prevention and channel stabilisation. It is also used in slope stabilization on steep inclinations for protection and supporting or erosive soils as well as in road construction to address the challenges of soft soils or soils with low bearing capacities.

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**TeMa – CELL**

**Function**
- Erosion control and lateral restraint

**Standard Cell Sizes**
- 300 x 300 mm (212 x 212 mm)

**Standard Cell Heights**
- 75, 100, 150 & 200 mm

**Standard Panel Size**
- 3 x 10 m

**Applications**
- Roads, storm water channels, retaining walls, side slopes.

**TeMa – CELL** is an expandable “honeycomb” geocell system made from Polypropylene (PP) slit-film woven tape with high tensile strengths at low elongations. The joints are stitched using high tenacity thread.

**TeMa – CELL** is filled with natural material, such as soil and gravel or concrete to stabilize embankments, river banks, sand dunes, base courses and channels and in certain instances to promote the growth of vegetation.

**TeMa – CELL** is light weigh, durable to range of climatic conditions and quick and easy to install.

Customised cell sizes, heights and panel layouts are available on request to suit specific requirements and/or site conditions. Side walls are available with perforations if required.
TeMa – TEX W

TeMa-TEX W is a Woven, Slit Film, Polypropylene (PP) geotextile used in filtration, separation and reinforcement applications due to its high tensile strength at relatively low elongations.

TeMa – TEX W is used in narrow width form as the base component in the Silt-Fence system for erosion control on steep exposed side slopes. It can also be used as an alternative in Tema – SPEED DRAIN where dewatering and drainage of fine particle or very clayey soil is required.

Tema – TEX W is used in roads, pavements, railroads, structures and water conservancy projects.

Function
- Separation, Filtration, Reinforcement

Mass
- 120, 215 & 280 gsm

Ultimate Tensile Strength
- 50kN/m

Roll Sizes
- Maximum 5 x 200 m

Applications
- Subsoil drainage, separation of layers and light reinforcement

TeMa – TEX NW

TeMa – TEX NW is a range of needlepunched nonwoven geotextiles for use in many construction applications.

TeMa – TEX NW is available in both Polyester (PET) and Polypropylene (PP) variants and is thus suitable for a wide range of environments where durability and pH conditions vary.

TeMa – TEX NW is used as a component in other products within the TeMa Geo range as well as the base material for other converted products such as geobags, pipe socks and prefabricated vertical/hanging garden systems.

Function
- Separation, Filtration, Drainage, Protection

Types
- Polypropylene (PP), Polyester (PET)

Mass
- Up to 1 500 gsm

Roll Widths
- Maximum 5.3 m

Applications
- Subsoil drainage, separation of layers, protection of geomembrane and waterproofing systems.
TeMa – GABIONS & MATTRESSES

TeMa – GABIONS & MATTRESSES are wire mesh boxes, containers or baskets filled with rock to prevent soil erosion and to retain soil particles.

TeMa - GABIONS are typically used to reduce water velocities and re-capture river bed sediment in streams.

TeMa – MATTRESSES are typically used in river courses where soil erosion is problematic over a large flat or sloped area needing protection against soil loss or scour.

The steel used is of high strength and durable in nature conforming to SANS 1580.

Weldmesh options of 50mm x 100mm or 75mm x 75mm aperture sizes are also available.

Coatings
- Galvanised (Class A), PVC, Galfan

Wire Mesh Specifications
- 60 x 80 mm or 80 x 100 mm aperture size
- 2.2 - 2.7 mm dia.

Available Sizes
- Standard and custom sizes

Applications
- Erosion protection, river revetment, retaining structures, drainage structures

Ecovernet is a 100% biodegradable Geojute commonly used for preventing soil erosion and promoting the establishment of pre-seeded vegetation on new and exposed slopes.

Ecovernet is manufactured from woven natural jute fibre which retains moisture and are flexible enough to match ground contours, thus ensuring optimal contact and maximum protection of newly placed topsoil layers. Because it is natural, the product contains no polymers, pollutants or toxins and is thus environmentally neutral.

Ecovernet's natural fibres eventually decompose being replaced by the vegetation and their own natural root system to retain the soil and prevent any future erosion.

Function
- Erosion Control

Mass
- 292 gsm

Mesh Dimensions
- 10 x 10 mm

Product Size and Loading
- 1.22 x 100 m per roll

Applications
- Slope stabilisation, vegetation growth
IWIS (Insulation Waterproofing Industrial Systems) is a “thinking holding” established to efficiently manage its member companies, enhancing all aspects of their operation. The synergies achieved thereby benefit all aspects of group production, operation and logistics as well as the commercial and research and development activities.

It is called a “thinking holding” because it is a group of companies that understands the critical thinking and ideas necessary to satisfy the diverse expectations and demands from a chain of professionals, retailers, installers and contractors.

With 15 factories, 11 international subsidiaries, and a global distribution network IWIS provides both technical and sales support in over 70 territories worldwide. It is a truly reliable global supply partner able to provide an extensive range of products and systems for the building and construction industry.

With its product development clearly focused on research, IWIS offers products and systems that always make use of the latest technologies.
TeMa – Technologies & Material S.R.L is a proud corporate member of International Geosynthetics Society (IGS).

TeMa South Africa (Pty) Ltd is a proud Benefactor member of the Geosynthetic Interest Group of South Africa (GIGSA)
Our History, Evolution and Globalisation

TeMa – (derived from an acronym of “Technologies and Materials”), was founded in 1993 and from the very start focussed on providing comprehensive market coverage supported by innovative product solutions. This philosophy still runs through the core of the company today and can be seen in the continuing product development and international expansion into new markets around the world.

The corporate strategy has made TeMa a truly global company and has created the conditions for continued international expansion, both for production facilities and distributor networks. The expansion initially began from the headquarters in Vittorio Veneto, northern Italy with additional manufacturing facilities following in TeMa Iberia (Spain), TeMa North (Russia), TeMa Med (Turkey), Replastica (Romania) and TeMa NA (USA) in 2018. In 2019 TeMa will have 6 production facilities across 3 continents, with distribution networks extending into some 60 countries, including South Africa (Sub-Saharan Africa). These facts serve to illustrate the TeMa belief that true global production offers greater benefits to our clients than centralised mass production.