

High Strength Polyester & PPMF Woven Geotextiles

High Strength Polyester & PPMF Woven Geotextiles are woven multifilament geotextiles manufactured from high tenacity Polyester / Polypropylene filament yarns. These have high tensile strengths, low elongation, low creep and excellent durability and are recommended for applications where the predominant geosynthetic function is reinforcement. With its low apparent opening size and adequate permeability, the geotextile can also perform the function of separation and to a limited extent filtration.

Applications :

- Subgrade separation and stabilization for roads • Airports • Rail Tracks
- Area stabilization • Ground improvement • Load transfer platforms
- Basal reinforcement of embankments • Coastal Protection

Quality :

- CE Marked • Tested at TRI USA • Tested at BTTG UK



Production Capacity:

- 5460 Metric Tons Per Annum / 15.6 Million SQM Per Annum

PP Needle Punch Nonwoven Geotextiles

TechGeo nonwoven geotextiles are manufactured from PP staple fibers, which are mechanically bonded through needle-punching to form a strong, flexible and dimensionally stable fabric structure, with optimum pore sizes and high permeability. The products are manufactured to world-class standards through German DILO needle punch machines.

The geotextile is resistant to chemicals and biological organisms normally found in soils and are stabilized against degradation due to short-term exposure to ultraviolet radiation

Applications:

- Subgrade separation for roads, airports, rail tracks • paving fabrics
- Filter for hard armour erosion control systems • Geotextile bags and containers
- Filter for granular drainage systems in roads, railways, airports, retaining walls, slopes, landfills

Quality:

- CE Marked • Tested at TRI USA • AASHTO NTPEP • Tested at BTTG UK • BIS Marked

Available Size : Width - 2.5m, 3.9m, 4.5m, 5.0m

TECHGEO
EXTENSIVE GEOTECHNICAL



Production Capacity:

- 8400 Metric Tons Per Annum / 42 Million SQM Per Annum

Asphalt Interlayer Composites (AIC) Reinforced Nonwoven Composite (TGC)

TechGlass AIC is a composite of high modulus, low strain glass fiber strands stitched to a Polyester/Polypropylene nonwoven. The reinforcing effect of the low strain glass fiber strands to the asphalt system in combination with the water proofing, stress relieving and bonding properties of the nonwoven leads to a dramatic reduction of reflective cracking under asphalt overlays.

Techfab TGC products are reinforced nonwoven composite geotextiles comprising a Polyester/Polypropylene nonwoven geotextile to which high tenacity polyester filament yarns are knit bonded in the machine and cross Machine directions. The high tenacity, high molecular weight, low CEG polyester filament yarns with high tensile strength and low creep perform the function of reinforcement and the nonwoven performs the function of separation, filtration and drainage.

Applications for AIC :

- Heavy stressed pavements & bridge decks
- Airports Runway, Taxiway, Highway & Motorway
- Asphalt pavement rehabilitation & Asphalt overlays over concrete pavements

Applications for TGC :

- Paved and unpaved roads • Load transfer platforms over saturated soil
- Railway Track Construction • Parking lots • Reinforced soil walls and slopes

Quality : CE Marked • Tested at TRI USA • Tested at BTTG UK



Production Capacity:

- AIC - 5.0 Million SQM / Annum
- TGC - 5400 Tons / Annum

TechGrid Polyester Geogrids

Techgrid Geogrids are knited and Polymeric coated polyester geogrids manufactured from superior grades of high tenacity, high molecular weight and low carboxyl end group polyester yarns, which are formed into a dimensionally stable grid structure using a highly sophisticated weft insertion warp knitting and coating technology.

TechGrid TGU series of uniaxial geogrids are available in a range of tensile strength and are suitable for applications, which requires strength in one direction.

TechGrid TGB series of biaxial geogrids are designed for applications where strength requirement is in both directions.

Applications for TGU :

- Reinforced soil walls • Steep slopes
- Basal reinforcement for embankment • Veneer reinforcement

Applications for TGB :

- Reinforcement of base & Sub base
- Area stabilization • Track bed stabilization • Load transfer platform

Quality :

- CE Marked • BBA Certified • Tested at TRI USA, BTG UK and IITs India
- BIS Marked

TechStrap

TechStrap is planar structures consisting of a core of high tenacity polyester yarn tendons encased in a polymer sheath. The strips are suitable for reinforcement applications in combination with concrete wall facing panels.

The composition and thickness of the sheath for Techstrap is specifically engineered to provide a high level of dimensional stability and protection from weathering and exceptional resistance to installation damage.

Applications :

- Reinforced soil walls • Shored MSE walls

Quality : • Tested at TRI USA • CE Marked • BIS Marked

TechCore Connector

The TechCore Connector is a special connector indigenously developed to provide the necessary connection between Reinforced Soil Wall Concrete Panels with TechGrid Geogrid / TechStrap Polyester Strap (Accessories for Geogrid & Strap).

Available Sizes :

- 125 mm to connect TechStrap reinforcement
- 250 mm to connect TechGrid Geogrid reinforcement

TechLink

TechLink Geogrids are high performance geosynthetics specifically engineered for soil reinforcement applications demanding high to ultra-high tensile strength. TechLink consists of two sets of polymeric strips - with one set of parallel strips aligned in the longitudinal direction and another set of parallel strips aligned in the cross-direction - which are bonded to each other at the cross-over junctions to form a stable grid structure.

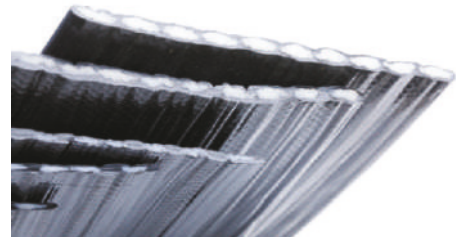
Applications for TechLink :

- Basal Reinforcement • High Reinforced soil walls & slopes
- Ground improvement • Haul roads • Hard standages



Production Capacity:

- 51 Million SQM Per Annum



Production Capacity

- 86 Million linear meter / Annum



Production Capacity:

- 1.54 Million Pcs / Annum



Production Capacity

- 3.6 Million SQM / Annum

TechGrid PP Biaxial Geogrid

Techgrid PP Biaxial - an integrally formed biaxial geogrid consisting of high quality polypropylene and carbon black. The punched and drawn (stretched) manufacturing process are so designed that they provide the lateral confinement and helps in reinforcing the weak soils. Its primary function is reinforcement and confinement through apertures that allows for strike through of surrounding soil, stone.

These have the same tensile strength values in both the directions and demanded where the stresses are coming from both the directions. It helps in better distribution of wheel loads over reinforced area.

Applications:

- Subgrade stabilization of unpaved roads, highways, airports and railway tracks
- Base Reinforcement
- Hard standages, working platforms, load transfer platform
- Area stabilization, void spanning • Reinforced soil walls and slopes (soft facing/ secondary reinforcement)

Available Size:

- 4m width or shorter width _ 3.95m • Roll length available in 50m

Quality :

- CE Marked • BIS Marked

TechCell

TechFab India started manufacturing Techcell, which has a generic name Geocell. Techcell is a light weight yet strong, three dimensional honeycomb like cellular confinement system. It is used with infill granular material and used for ground improvement to weak foundation soil by increasing its load bearing capacity and also to control slope erosion by surface protection system. The basic raw material used for its manufacturing is High Density Polyethylene stabilized with carbon black. There are different width of strips (as per the thickness requirement at site), connected through staggered welding and supplied in collapsed form. When open for use, it spreads like honeycomb structure hence providing ease during installation.

Applications

- Roadways • Railways • Steep Soil Reinforcement
- Reservoirs • Landfill Area • Channel protection

Quality

- BTRA Test Report • Tested at BTTG • Tested at TRI • CE Marked • BIS Marked

TechDrain Prefabricated Vertical Drains (PVD/Band Drain)

TechDrains are composite in construction with an inner core wrapped in a nonwoven geotextile filter fabric. The inner core is of polypropylene and the filter fabrics are of polypropylene or polyester. The Prefabricated vertical drains are required to have high permeability and sufficiently high drainage capacity so that pore water escapes in horizontal direction toward the nearest drain.

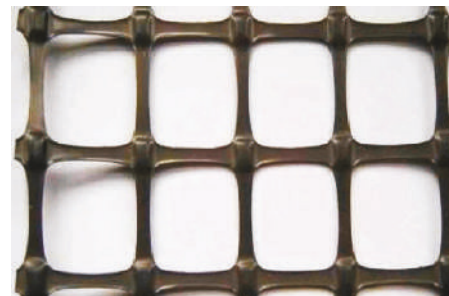
We manufacture two types of PVD - Corrugated PVD, Fishbone PVD. TechDrain is predictable, in both technical and financial terms. PVD technology has proven itself in hundreds of projects in the last thirty years.

Applications :

- Land reclamation projects • Construction of highways, railways, airfields and dykes
- Ports and harbor construction • Development of industrial sites
- Mitigation of liquefaction

Quality :

- CE Marked • Tested at: • AIT Bangkok • CTT Group (Sageos) Canada
- TUV SUD PSB Singapore • IIT Chennai India • SLS - Singapore • BIS Marked



Production Capacity:

- 2400 Metric Tons Per Annum / 5.0 Million SQM Per Annum



Production Capacity:

- 10 Million SQM / Annum



Production Capacity:

- 162 Million Linear Meters Per Annum

TechDrain Drainage Composites

Drainage composites are formed by a combination of geotextile (Woven or nonwoven), acting as a filter and separator on one or both sides with a core of Geonet. It has remarkable integration with full-fledged production with in house lines under one roof for : • Polypropylene Staple Fibre • Non woven Needle punch Geotextiles

Techfab Drainage Composite allows water to pass through into the polymer core but prevent the soil particles to enter inside. Techdrain drainage composite which directly replace the granular drainage layer completely or partially.

Applications :

- Reinforced Soil Wall & Retaining Wall • Pavements & Track Bed Stabilization
- Canal Lining • Tunneling • Landfill • Landscaping Projects

Available Size :

- Width - 2.0m, 4.0m, 3.8m • Length - 25m / 50m

Quality : • CE Marked

TechDrain Dimple Board

TechDrain Dimple Board is a protective sheet produced from high-density polyethylene (HDPE) with various dimples heights.

Available Size :

8mm (with & without nonwoven geotextile)

Applications :

- Vertical Drainage for Retaining • Structure Protection • Drainage of Basements
- Waterproofing Protection for Tunnel Lining • Green roofs, landscaping
- Deep foundations

TechFab Geotextile Bags (Woven & Nonwoven)

High performance Woven Geotextile Bags are made of specifically Woven Geotextile and Non woven Polypropylene Geotextile Bags are made of nonwoven, needle punched, Staple fiber Geotextile, filled on site with sand or grout.

Both the materials have high flow rate, better filtration behavior, high puncture and abrasion resistance and extreme U.V. resistance characteristics.

The Geotextile bags are designed to be filled with sand such that they form stable, durable container for River works and other related hydraulic applications.

Applications :

- River Bank Revetments • Beach Erosion Protection • Construction of Groynes & Bund wall • Scour protection of bridge piers • Embankment Protection

Available Size :

- 1.03 m X 0.70 m • 1.09 m x 0.69 m • 1.0 m x 0.75 m • 2.0 m x 1.5 m • 1.20 m x 1.0 m

Quality : • BIS Marked

Tech GeoMattress

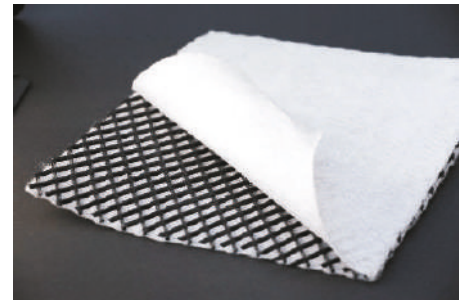
Tech GeoMattress is a Flexible and Tubular shaped Green Mattress System, manufactured from two layers of geotextile, upper layer is green colored composite fabric having green cut fiber on top and bottom layer is high strength woven fabric. The upper layer provides long lasting UV protection and enhancing natural vegetation growth and gives attractive look of the protection bank.

Applications

- River Bank Revetment • Navigational Canals & Water • Coastal Revetment
- Ponds & Reservoirs

Available Size: Width – 4.5 m, 5.1 m • Roll Length Available in 33 m

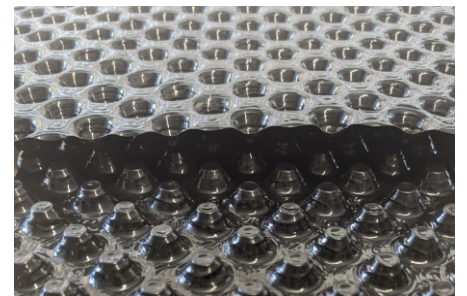
TechDrain
DRAINAGE COMPOSITE



Production Capacity:

- 7.2 Million SQM / Annum

▲▲▲▲▲
TECH DIMPLE BOARD



Production Capacity

- 1.89 Million SQM / Annum



Production Capacity:

- 6000 Metric Tons / Annum

 **TECH
GEOMATTRESS**



Production Capacity :

- 50,000 SQM / Annum

TechFab Metal Gabions

TechFab Metal Gabions are factory assembled gabion boxes manufactured from hexagonally woven double twisted steel wire mesh with zinc and PVC coating, which are supplied in a collapsed form. The gabions are available in a range of sizes. The gabions are filled with durable stone to form flexible, permeable and monolithic structures. We also manufacture Techfab Metal Gabion Mattress and TechFab Metal Netting.

Applications:

- Gravity and reinforced soil retaining walls
- River bank and bed protection
- Scour protection of bridge piers and abutments
- Weirs and drop structures

Available in Mesh Size: • 80mm X 100mm • 100mm X 120mm

Quality: • CE Marked • BIS Marked

TechRhombus

TechRhombus high tensile rope net system is made out of high tensile steel wire ropes with tensile strength of more than 1960 N/mm² which is a superior alternative to conventional rockfall protection system. High Tensile rope net system works in combination with or without bearing plates and other elements like top & bottom support ropes, wire rope anchors and soil nails. TechRhombus can be used for both active and passive rockfall protection system.

Applications :

- Rockfall Protection
- GeoHazard Mitigation
- Slope Stabilization
- Landslide Mitigation
- Surface Protection

Available Size : • Width – 2, 3, 4, 5 m • Length – 5, 6, 7, 8, 9, 10 m

Quality : • CE Marked

TechSlope Mesh

TechSlope flexible slope stabilization system made out of high tensile steel wire which has minimum deformation and maximum tensile strength, the mesh has unique advantages over conventional slope stabilization methods using hard facing such as shotcrete. The flexible slope stabilization system works in combination with or without bearing plates and other elements like top & bottom support rope, wire rope anchors and soil nails.

TechSlope flexible slope stabilization system is available in two types:

- TechSlope 65/3
- TechSlope 100/3.4

Applications :

- Rockfall Protection
- GeoHazard Mitigation
- Landslide Mitigation
- Surface Protection
- Slope Stabilization

Available Size :

- Width - 3.0 m
- Roll Length Available in 30m

TechAnchor

TechAnchor Self Drilling Anchors are most commonly used items for slope stabilization projects as well as tunneling and mining projects because of its flexibility to use in various type of soil and rock conditions. TechAnchor systems reduces the cost of project to a significant amount with its lower cost of stocking as it can be kept with full length and can be cut as per project requirement. Smaller diameter bars can be used under same load due to extraordinary steel mechanical properties. Several types of drill bits (Cross, Clay, Jetting, segment etc.) available for various project needs. Available in various types of coatings such as epoxy, galvanized etc.

Applications:

- Surface Protection
- Soil Nailing

Available Size :

- Length - 3.0, 4.0m
- Diameter - 25, 32, 38, 51, 76 mm

TechFab-Metal Gabion



Production Capacity:

- 9300 Metric Tons Per Annum

TechRhombus HRC

High Tensile Rope Net System



Production Capacity:

- 500 Metric Tons / Annum

TechRhombus

High Tensile Rope net System is available in two types of junction

- Steel Wire Knot (SWK)
- High Resistance Clip (HRC)

TechSlope Mesh

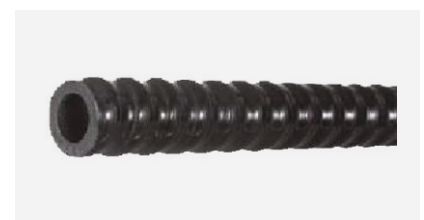
Flexible Slope Stabilisation System



Production Capacity :

- 720 Metric Tons / Annum

TechAnchor



Production Capacity:

- 1680 Metric Tons / Annum

Tech Weld Mesh

Tech Weld Mesh is a high-strength welded wire mesh made by straightening and spot-welding premium carbon wires into square or rectangular grids. Cold-drawn or cold-rolled, these wires are electrically welded at every intersection and welded continuously by an automatic welding machine, ensuring superior durability and consistent mechanical anchorage when bonded to concrete.

Applications:

- Slope stabilization
- Landscaping
- Structural reinforcement
- Gravity & Reinforced Soil Structures

Available Size:

- Length - 2 - 6 m
- Width - 2 - 2.5 m



Production Capacity

- 3500 Metric Tons Per Annum

TechFab India: Delivering Global Solutions

TechFab India's high-quality products, including Geogrids, Woven and Nonwoven Geotextiles, Geocell, PVD, Drainage Composites have gained widespread acceptance in over 50 countries, underscoring our dedication to delivering high-quality products and services on a global scale. Our commitment to excellence ensures that our innovative geosynthetic solutions meet global standards, empowering diverse applications worldwide.

Expanding Our Global Footprint with TechFab USA

We are excited to announce the launch of TechFab USA, expanding our global presence. As leaders in geosynthetic manufacturing and soil reinforcement, we offer advanced solutions for applications such as retaining walls, soil slopes, and embankments across highways, landfills, and more. With offices in New Jersey and a warehouse in Atlanta, we're committed to delivering exceptional service across the U.S. Visit www.techfabusa.com or email info@techfabusa.com for more information.



ABOUT TECHFAB INDIA INDUSTRIES LTD

TechFab India was founded in 2003 with the objective of providing world class geosynthetic products and services to serve the needs of manufacturing development in India. From a modest beginning with the setting up of a manufacturing facility for woven geotextiles in Silvassa, we have rapidly grown to become the largest manufacturer of geosynthetics and Rockfall protection & GeoHazard Mitigation products in India. Today we manufacture a wide range of products at our factories in Silvassa, Daman, Bhopal and Haridwar. Details are as under:

- ▶ TechGrid Knitted and polymer coated Polyester Geogrids (BIS & CE Marked & BBA Certified)
- ▶ TechGrid-Base Reinforcement Geogrids (BIS & CE Marked)
- ▶ TechLink (BIS Marked)
- ▶ Tech GeoMattress
- ▶ TechGeo Needle Punched Nonwoven Geotextiles (BIS & CE Marked)
- ▶ TFI 3000 Woven PET (CE Marked)
- ▶ TGC Reinforced Nonwoven
- ▶ TechPave Paving Geotextiles (CE Marked)
- ▶ TechFab Metal Gabions (BIS & CE Marked)
- ▶ TechDrain - Prefabricated Vertical Drains (CE Marked)
- ▶ TechTube Geotextile Tubes
- ▶ TechFab Geotextile Bags (BIS Marked)
- ▶ TechDrain Drainage Composites (CE Marked)
- ▶ TechGrid PP Biaxial Geogrid (BIS & CE Marked)
- ▶ TechCell GeoCells (BIS & CE Marked)
- ▶ TechStrap Polyester Strap (BIS & CE Marked)
- ▶ Tech Fibre - PP Staple Fibre
- ▶ TechDrain Dimple Board
- ▶ TechRhombus (CE Marked)
- ▶ TechSlope Mesh
- ▶ Tech Anchor - Self Drilling Anchors
- ▶ Tech Weld Mesh



World-class Geosynthetics & GeoHazard Mitigation Products Manufactured in India by TechFab India Industries Ltd.								
TFI Woven Geotextiles (Polyester & Polypropylene)	TechGrid Polyester Geogrid	TechGrid PP Biaxial Geogrid	TechCell Geocell	TechDrain Drainage Composite	TechDrain Dimple Board	TGC Reinforced Nonwoven Composites	TechFab Geotextile Bags	TechFab Metal Gabion & GeoHazard Mitigation Products
TechGeo Nonwoven Geotextile	TechLink	TechStrap Polymeric Strip	Tech GeoMattress	TechDrain PVD	TechPave	TechMat Erosion Control Mat	TechTube Geotextile Tubes	

TechFab In house laboratory is accredited With ISO/IEC - 17025:2017 & GRI - GAILAP



TECHGEO
Geosynthetic Solutions

TFI Woven Geotextiles

TechDrain
PVD

TechCell

TechRhombus HRC
High Tensile Rope Net System



TechFab-Metal Gabion

TechGrid PP
Biaxial Geogrid

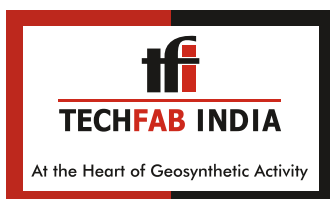
TECH TUBE

TechDrain
DRAINAGE COMPOSITE

TechSlope Mesh
Flexible Slope Stabilisation System

WM
TECHSTRAP

TECHLINK



Download TFI Mobile App Now !



Head Office :

46 & 47, Maker Chambers VI, Nariman Point, Mumbai - 400021, India

● **Tel. :** + 91-22-2287 6224 / 25

● **Email :** info@techfabindia.com, anant@techfabindia.com

Regional Offices : New Delhi ● Hyderabad ● Vadodara